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National Science Foundation

Grants and Awards for Fiscal Year 1980

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Grants and Awards for Fiscal Year 1980

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CONTENTS

GRANTS AND AWARDS FISCAL YEAR 1980

Mathematical and Physical Sciences *1*
- Chemistry *1*
- Mathematical Sciences *15*
- Physics *28*
- Materials Research *35*
- Computer Science *47*

Astronomical, Atmospheric, Earth and Ocean Sciences *52*
- Atmospheric Science *52*
- Earth Science *57*
- Oceanography *67*
- Environmental Science *73*
- Astronomy *73*
- Climate Dynamics *77*
- International Decade of Ocean Exploration *80*
- Ocean Drilling Programs *85*
- Arctic Research *86*
- Solar Eclipse *87*
- Antarctic Research *87*
- Oceanographic Facilities and Support *90*
- National Research Centers *92*
- Other *92*

Biological, Behavioral, and Social Sciences *93*
- Physiology, Cellular and Molecular Biology *93*
- Social Science *122*
- Behavioral and Neural Science *129*
- Other *142*

Scientific, Technological, and International Affairs *142*
- Information Science and Technology Activities *142*
- Policy Research and Analysis *143*
- Science Resources Studies *145*
- International Cooperative Science Program *146*
- Scientific Organizations and Resources Program *150*
- International Travel *151*

Engineering and Applied Science *155*
- Problem-Focused Research *155*
- Applied Research *161*
- Intergovernmental Science *166*
- Small Business Innovation and Industrial Technology *168*
- Electrical, Computer and System Engineering *169*
- Chemical and Process Engineering *175*
- Civil and Environmental Engineering *180*
- Mechanical Sciences and Engineering *184*

Cross-Directorate Programs *188*
Industry/University Cooperative Research *188*
Regional Instrumentation Facilities *190*
Research Initiation in Minority Institutions *190*
Two and Four-Year Colleges Instrumentation and Equipment *191*
NSF Planning and Evaluation *195*
U.S./U.S.S.R. Cooperative Research *195*
Alan T. Waterman Award *196*
U.S./China Cooperation in Basic Sciences *196*
Experimental Program to Stimulate Competitive Research *196*

Science Education *196*
Science Education and Fellowships *196*
Fellowships *222*

Special Foreign Currency *225*
Scientific and Technological *225*
Scientific Research *225*
International Travel *227*

Fellowships and Traineeship Awards *231*
Graduate and Minority Graduate Fellowships *231*

INTRODUCTION

This report is a listing of all NSF program grants and contracts awarded in Fiscal Year 1980 and is organized by NSF program. The awards are arranged by state or country and, within each state or country, by institution.

An asterisk following the award number indicates that the profit is funded by more than one NSF program or appropriation and may appear more than once in the report.

"Other Program Awards" refers to miscellaneous awards such as purchase orders, travel authorizations, and grants to individuals (including International Travel Grants).

The table entitled "Fellowship Awards" reflects the number of awards accepted.

INCLUSION AND EXCLUSIONS

This report includes all grants and contracts funded from the National Science Foundation's Salaries and Expenses Appropriation and Special Foreign Currency Appropriation.

This report excludes the following:

Transaction funded from Program Development and Management Funds (such as procurements for routine housekeeping activities).

Awards (or portions of awards) using funds transferred to NSF by other Federal agencies.

Administrative transactions such as extensions of project duration or amendments to modify grant or contract terms which do not involve the obligation of FY 1980 funds.

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MATHEMATICAL AND PHYSICAL SCIENCES

CHEMISTRY

ALABAMA

AUBURN UNIVERSITY

SHEVLIN, PHILIP B; *REACTIONS OF CHEMICALLY GENERATED CARBON ATOMS AND RELATED HIGH ENERGY INTERMEDIATES (CHE-7724624 A02)*; 12 MONTHS $30,800

WORLEY, S D; *AN INVESTIGATION OF ADSORBATES ON THE SURFACES OF CATALYSTS FOR NOVEL CHEMICAL REACTIONS (CHE-7920825)*; 24 MONTHS $42,000

UNIVERSITY OF ALABAMA

ATWOOD, JERRY L; *SYNTHETIC AND STRUCTURAL CHARACTERIZATION OF NOVEL COMPOUNDS THAT POSSESS METAL-CARBON SIGMA BONDS. A. LIQUID CLATHRATES B. EARLY TRANSITION METAL COMPLEXES (CHE-7909729 A02)*; 12 MONTHS $30,270

VISSCHER, PIETER B; *CALCULATION OF TRANSPORT COEFFICIENTS IN FLUIDS (CHE-7906649 A01)*; $6,000

PAUDLER, WILLIAM W; *PURCHASE OF A MULTINUCLEAR 200 MHZ NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8008018)*; 12 MONTHS $130,000

ARIZONA

UNIVERSITY OF ARIZONA

SHOEMAKER, RICHARD L; *MOLECULAR RELAXATION AND COHERENT TRANSIENT EFFECTS (CHE-7824085 A01)*; 12 MONTHS $45,028

FELTHAM, ROBERT D; *REACTIONS OF COORDINATED NITROGEN OXIDES (CHE-8000245)*; 12 MONTHS $51,300

BATES, ROBERT B; *DELOCALIZED CARBANIONS IN SYNTHESIS (CHE-8015306)*; 12 MONTHS $38,000

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

SIEGEL, SAMUEL; *A COMPARISON OF MONONUCLEAR COMPLEXES OF RHODIUM WITH SUPPORTED PLATINUM METALS AS CATALYSTS FOR HYDROGENATION AND RELATED REACTIONS (CHE-7826611 A01)*; 12 MONTHS $40,300

GREEN, ROBERT B; *ANALYTICAL OPTOGALVANIC SPECTROMETRY OF TRACE METALS (CHE-7918626 A01)*; 12 MONTHS $35,757

SCHAFER, LOTHAR; *INVESTIGATIONS CONCERNING THE JOINT APPLICABILITY OF AB INITIO FORCE RELAXATIONS AND EXPERIMENTAL PROCEDURES IN PROBLEMS OF STRUCTURAL CHEMISTRY (CHE-7920790)*; 12 MONTHS $24,000

CALIFORNIA

AEROSPACE CORPORATION

JOHNSON, B R; *APPLICATION OF HYPERSPHERICAL COORDINATES TO THE THREE BODY QUANTUM PROBLEM (CHE-7913208 A01)*; 12 MONTHS $40,000

CALIFORNIA INSTITUTE OF TECHNOLOGY

WEINBERG, W HENRY; *HYDROGENATION AND HYDROGENOLYSIS OF HYDROCARBONS OVER WELL CHARACTERIZED SURFACES OF RUTHENIUM, IRIDIUM AND PLATINUM (CHE-7714976 A02)*; 12 MONTHS $41,600

BERCAW, JOHN E; *THE ACTIVATION OF MOLECULAR NITROGEN, CARBON MONOXIDE, AND HYDROCARBONS WITH ORGANOMETALLIC COMPOUNDS (CHE-7850006 A25)*; 12 MONTHS $160,415

KUPPERMANN, ARON; *DYNAMICAL RESONANCES IN CHEMICAL REACTIONS (CHE-7850006 A26)*; 12 MONTHS $35,006

ANSON, FRED C; *CATALYSIS, ADSORPTION, AND CHARGE TRANSFER KINETICS IN REACTIONS AT ELECTRODES (CHE-7850006 A27)*; 12 MONTHS $114,200

WEINBERG, W HENRY; *CHEMISORPTION AND HETEROGENEOUS CATALYSIS OF NITROGEN AND CARBON CONTAINING MOLECULES UNDER WELL CHARACTERIZED CONDITIONS OVER GROUP VIII TRANSITION METALS (CHE-7850006 A28)*; 12 MONTHS $107,300

MC KOY, VINCENT; *ELECTRON-MOLECULE AND ELECTRON-MOLECULAR ION SCATTERING CROSS SECTIONS AND RELATED PROCESSES (CHE-7915807)*; 12 MONTHS $60,000

GRAY, HARRY B; *PHOTOCHEMISTRY OF METAL-ISOCYANIDE COMPLEXES (CHE-7950006 A10)*; 12 MONTHS $61,000

IRELAND, ROBERT E; *TOTAL SYNTHESIS OF MACROLIDE ANTIBIOTICS (CHE-7950006 A11)*; 12 MONTHS $77,000

ROBERTS, JOHN D; *NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY. STRUCTURES AND REACTION MECHANISMS OF ORGANIC COMPOUNDS (CHE-7950006 A12)*; 12 MONTHS $105,000

EVANS, DAVID A; *STUDIES IN ORGANIC SYNTHESIS (CHE-7950006 A13)*; 12 MONTHS $121,698

BALDESCHWIELER , JOHN D; *NEW PHYSICAL METHODS FOR THE STUDY OF BIOLOGICAL SYSTEMS (CHE-7950006 A14)*; 12 MONTHS $89,970

GRUBBS, ROBERT H; *METALLACYCLES IN TRANSITION METAL CATALYSIS (CHE-7950006 A15)*; 12 MONTHS $79,600

GAGNE, ROBERT R; *BINUCLEAR TRANSITION METAL COMPLEXES (CHE-7950006 A16)*; 12 MONTHS $42,200

ZEWAIL, AHMED H; *HIGH-ENERGY VIBRATIONAL OVERTONES OF MOLECULES IN SOLIDS: LOCAL MODES AND INTRAMOLECULAR RELAXATIONS (CHE-7950006 A17)*; 12 MONTHS $49,000

DERVAN, PETER B; *PERSISTENT DIAZENES AND OTHER REACTIVE INTERMEDIATES (CHE-7950006 A18)*; 12 MONTHS $101,700

CALIFORNIA STATE UNIVERSITY, FULLERTON

FINLAYSON-PITTS, BARBARA; *THE REACTION OF HYDROGEN ATOMS WITH OZONE (CHE-7920309)*; 12 MONTHS $44,000

CALIFORNIA STATE UNIVERSITY, LONG BEACH

JENSEN, JAMES L; *MECHANISMS OF ACETAL AND HEMIACETAL HYDROLYSES (CHE-7907588 A01)*; 12 MONTHS $21,700

LINUS PAULING INST OF SCIENCE & MEDICINE

PAULING, LINUS; *THE STRUCTURE OF MOLECULES AND CRYSTALS AND THE NATURE OF THE CHEMICAL BOND (DMR-8012728*)*; 12 MONTHS $20,000

NAVAL POSTGRADUATE SCHOOL

HARRISON, DON E; *CLASSICAL TRAJECTORY STUDIES OF LOW ENERGY ION IMPACT MECHANISMS ON CLEAN AND REACTED SINGLE CRYSTAL SURFACES (CHE-7820474 A01)*; 12 MONTHS $35,000

OCCIDENTAL COLLEGE

DEHAAN, FRANK P; *MECHANISMS OF ELECTROPHILIC AROMATIC SUBSTITUTION REACTIONS (CHE-7915122)*; 24 MONTHS $66,000

SAN FRANCISCO STATE UNIVERSITY

WALKER, F A; *SELECTED COORDINATION GEOMETRIES OF TRANSITION METAL COMPLEXES: MOLECULAR ORBITALS, REDOX, AND LIGAND DYNAMICS (CHE-7918217)*; 12 MONTHS $30,000

SRI INTERNATIONAL

SMITH, GREGORY P, LAINE, RICHARD M, AND GOLDEN, DAVID M; *BOND DISSOCIATION ENERGIES FROM GAS PHASE KINETICS STUDIES OF NEUTRAL TRANSITION METAL COMPLEXES AND ORGANOMETALLIC COMPOUNDS (CHE-7923569)*; 10 MONTHS $92,200

STANFORD UNIVERSITY

TAUBE, HENRY; *REVERSIBLE OXYGEN ELECTRODE: COLLABORATIVE SEARCH FOR NEW CATALYSTS AND PHYSICAL TEXTURES (CHE-7722722 A02*)*; 12 MONTHS $89,636

ANDERSEN, HANS C; *STATISTICAL MECHANICS OF CONDENSED PHASES (CHE-7909317 A02)*; 12 MONTHS $52,000

COLLMAN, JAMES P; *SYNTHETIC STUDIES IN HOMOGENEOUS CATALYSTS AND ORGANOMETALLIC CHEMISTRY (CHE-7809443 A02)*; 12 MONTHS $144,300

ZARE, RICHARD N; *STATE SELECTION AND STATE DETECTION OF MOLECULES WITH LASERS (CHE-7810019 A02)*; 12 MONTHS $166,960

BRAUMAN, JOHN I; *GAS-PHASE IONIC CHEMISTRY AND SPECTROSCOPY (CHE-7821064 A01)*; 15 MONTHS $130,000

DJERASSI, CARL; *CIRCULAR DICHROISM OF CYCLIC KETONES; CONFORMATIONAL ISOTOPE EFFECTS (CHE-7827413 A01)*; 12 MONTHS $41,923

PECORA, ROBERT; *THEORETICAL AND EXPERIMENTAL STUDIES OF THERMAL MOTIONS IN LIQUIDS AND POLYMER SYSTEMS (CHE-7901070 A01*)*; 12 MONTHS $32,000

TAUBE, HENRY; *OXIDATION-REDUCTION MECHANISMS (CHE-7908633 A01)*; 12 MONTHS $119,649

VAN TAMELEN, EUGENE E; *BIOGENESIS AND BIOLENETICALLY-PATTERNED SYNTHESES OF NATURAL PRODUCTS AND RELATED SUBSTANCES (CHE-8002661)*; 12 MONTHS $72,498

JOHNSON, WILLIAM S; *SYNTHETIC STUDIES RELATED TO NATURAL PRODUCTS (CHE-8004113)*; 12 MONTHS $93,795

ZARE, RICHARD N; *CHEMISTRY OF EXCITED MERCURY ATOMS (CHE-8006524)*; 12 MONTHS $147,684

ROSS, JOHN; *THEORY AND EXPERIMENTS ON IRREVERSIBLE CHEMICAL PROCESSES (CHE-8017231)*; 12 MONTHS $131,000

UNIVERSITY OF CALIFORNIA, BERKELEY

WINN, JOHN S; *MOLECULAR BEAM ELECTRIC RESONANCE SPECTROSCOPY OF IONIC MOLECULAR COMPLEXES (CHE-7721915 A02)*; 12 MONTHS $28,300

DAUBEN, WILLIAM G; *STRUCTURAL STUDIES IN ALICYCLIC SYSTEMS (CHE-7804811 A03)*; 12 MONTHS $109,087

STRAUSS, HERBERT L; *INTRA AND INTERMOLECULAR STRUCTURE AND FORCES AS STUDIED BY VIBRATION-ROTATION SPECTROSCOPY (CHE-7807825 A02)*; 12 MONTHS $50,000

STREITWIESER, ANDREW; *ORGANOMETALLIC CHEMISTRY (CHE-7824084 A01)*; 12 MONTHS $53,000

MUETTERTIES, EARL L; *EXPLORATORY AND FUNDAMENTAL STUDIES IN COORDINATION AND COORDINATION CATALYSIS (CHE-7903933 A01)*; 12 MONTHS $181,431

VOLLHARDT, K PETER C; *TRANSITION METAL AND HEAT MEDIATED ORGANIC TRANSFORMATIONS (CHE-7903954 A01)*; 12 MONTHS $57,456

HEATHCOCK, CLAYTON H; *GENERAL METHODS FOR ALKALOID SYNTHESIS (CHE-7906344 A01)*; 12 MONTHS $39,800

HARRIS, ROBERT A; *THEORETICAL STUDIES OF ATOMIC AND MOLECULAR SYSTEMS (CHE-7908909 A01)*; 12 MONTHS $38,169

HILL, CRAIG L; *CONSTRAINING BINUCLEATING LIGAND SYSTEMS. STUDY OF COOPERATIVE CHEMISTRY AND CATALYSIS BY METALS (CHE-7909730 A01)*; 12 MONTHS $48,000

STREITWIESER, ANDREW; *CARBON ACIDITY (CHE-7910814 A01)*; 12 MONTHS $65,000

SOMORJAI, GABOR A; *ENERGY TRANSFER IN REACTIVE AND NONREACTIVE GAS-SURFACE COLLISIONS (CHE-7911907 A01)*; 12 MONTHS $50,000

MOORE, C B; *KINETICS AND SPECTROSCOPY OF DYNAMIC INTERMEDIATES (CHE-7918027)*; 12 MONTHS $109,298

TEMPLETON, DAVID H; *ANOMALOUS SCATTERING OF SYNCHROTRON RADIATION (CHE-7919532)*; 12 MONTHS $45,000

MILLER, WILLIAM H; *THEORY OF CHEMICAL DYNAMICS (CHE-7920181)*; 12 MONTHS $89,651

JOLLY, WILLIAM L; *CHEMICAL APPLICATIONS OF X-RAY PHOTOELECTRON SPECTROSCOPY (CHE-7926097)*; 12 MONTHS $47,182

BERGMAN, ROBERT G; *ORGANIC AND ORGANOMETALLIC CHEMISTRY (CHE-7926291)*; 12 MONTHS $136,800

MUETTERTIES, EARL L; *COORDINATION CHEMISTRY OF COBALT AND IRON GROUP METAL SURFACES (CHE-8000038)*; 16 MONTHS $212,500

SAYKALLY, RICHARD J; *INFRARED LASER SPECTROSCOPY OF TRANSIENT SPECIES (CHE-8007042*)*; 12 MONTHS $85,000

SCHAEFER, HENRY F; *ELECTRONIC THEORY OF SIMPLE CHEMICAL REACTIONS (CHE-8009320)*; 12 MONTHS $87,000

UNIVERSITY OF CALIFORNIA, DAVIS

LAMAR, GERD N; *PARAMAGNETIC-INDUCED NUCLEAR RELAXATION AS A STRUCTURAL PROBE IN SOLUTION (CHE-7726517 A02)*; 12 MONTHS $64,000

MUSKER, W KENNETH; *THE CHEMISTRY OF THIOETHERS: CATION RADICALS, DICATIONS AND SULFOXIDES (CHE-7806863 A03)*; $4,669

ZWEIFEL, GEORGE; *PREPARATIONS AND REACTIONS OF ORGANOBORANES AND ORGANOALANES DERIVED FROM ALKYNES (CHE-7825185 A01)*; 12 MONTHS $33,300

SMITH, KEVIN M; *SYNTHESES AND METABOLISM OF CHLOROPHYLLS (CHE-7825557 A01)*; 12 MONTHS $30,447

MAKI, AUGUST H; *MICROWAVE-OPTICAL STUDIES OF EXCITED ELECTRONIC STATES (CHE-7910394 A01)*; 12 MONTHS $40,000

BALCH, ALAN L; *CHEMICAL AND PHYSICAL STUDIES OF POLYNUCLEAR METAL COMPLEXES (CHE-7924575)*; 12 MONTHS $36,300

KEIZER, JOEL E; *THEORY OF SPATIAL AND TEMPORAL CORRELATIONS IN NONEQUILIBRIUM THERMODYNAMICS (CHE-8009816)*; 12 MONTHS $50,000

UNIVERSITY OF CALIFORNIA, IRVINE

MOORE, HAROLD W; *SYNTHETIC UTILITY OF VINYL AZIDES (CHE-7702102 A03)*; $10,723

TAFT, ROBERT W; *ENERGIES OF SUBSTITUENT AND SOLVENT EFFECTS. PROTONIC ACIDITIES AND BASICITIES (CHE-7823115 A01)*; 12 MONTHS $41,500

SHEA, KENNETH J; *SYNTHESIS AND CHEMISTRY OF BICYCLO (3.N.1) BRIDGEHEAD ALKENES (CHE-7826154 A01)*; 12 MONTHS $33,480

OVERMAN, LARRY E; *NEW SYNTHETIC REACTIONS (CHE-7901833 A01)*; 12 MONTHS $55,858

WOLFSBERG, MAX; *PURCHASE OF A SUPERCONDUCTING HIGH FIELD NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-7910821)*; 12 MONTHS $102,000

GUINN, VINCENT P; *ADVANCED PREDICTION OF NEUTRON ACTIVATION SPECTRA (CHE-7911877 A01)*; 12 MONTHS $31,740

LEE, EDWARD K C; *ELECTRONICALLY EXCITED MOLECULES (CHE-7925451)*; 12 MONTHS $116,000

ROWLAND, F S; *FOURTEENTH INFORMAL CONFERENCE ON PHOTOCHEMISTRY, MARCH 30 APRIL 4, 1980, NEWPORT BEACH, CALIFORNIA (CHE-7927143)*; 12 MONTHS $5,000

MCIVER, ROBERT T; *FOURIER TRANSFORM MASS SPECTROMETRY OF LOW VOLATILITY COMPOUNDS (CHE-8004355)*; 12 MONTHS $62,500

WOLFSBERG, MAX; *PURCHASE OF A FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8007849)*; 12 MONTHS $50,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

FOOTE, CHRISTOPH S; *CHEMISTRY OF SINGLET OXYGEN AND RELATED TOPICS (CHE-7850002 A36)*; 12 MONTHS $66,700

HAWTHORNE, M F; *CHEMISTRY OF POLYHEDRAL BORANES (CHE-7850002 A37)*; 12 MONTHS $36,500

HAWTHORNE, M F; *CATALYSIS BY METALLOCARBORANES (CHE-7850002 A38)*; 12 MONTHS $75,000

EL-SAYED, MOSTAFA A; *MOLECULAR MULTIPHOTON IONIZATION AND MULTIPHOTON ELECTRONIC DISSOCIATION (CHE-7950002 A13)*; 12 MONTHS $44,600

BAYES, KYLE D; *FREE RADICAL KINETICS BY PHOTOIONIZATION (CHE-7950002 A14)*; 12 MONTHS $40,000

GELBART, WILLIAM M; *I. ORIENTATIONAL ORDERING IN LIQUID CRYSTALS: HARD-PARTICLE THERMODYNAMICS: II. LOCAL MODE VIBRATIONAL STRUCTURE OF POLYATOMIC MOLECULES (CHE-7950002 A15)*; 12 MONTHS $47,800

MC TAGUE, JOHN P; *DYNAMICS AND INTERACTIONS IN CONDENSED SYSTEMS (CHE-7950002 A16*)*; 12 MONTHS $95,000

ZINK, JEFFREY I; *TRANSITION METAL AND ORGANOMETALLIC PHOTOCHEMISTRY (CHE-7950002 A17)*; 12 MONTHS $53,200

FOOTE, CHRISTOPH S; *PURCHASE OF A COMPUTER SYSTEM (CHE-7950002 A18)*; 12 MONTHS $160,000

EL-SAYED, MOSTAFA A; *MOLECULAR MULTIPHOTON IONIZATION AND MULTIPHOTON ELECTRONIC DISSOCIATION (CHE-7950002 A19)*; $5,480

STEVENS, ROBERT V; *THE SYNTHESIS OF CORRINS AND RELATED LIGANDS (CHE-7950002 A20)*; 12 MONTHS $94,920

KAESZ, HERBERT D; *SYNTHESIS, CHARACTERIZATION AND CATALYTIC PROPERTIES OF TRANSITION METAL CLUSTER COMPLEXES (CHE-7950002 A21)*; 12 MONTHS $108,520

GLADYSZ, JOHN A; *NEW SYNTHETIC AND MECHANISTIC CHEMISTRY OF TRANSITION METAL TRIMETHYLSILANES (CHE-7950002 A22)*; 12 MONTHS $33,300

CHAPMAN, ORVILLE L; *SYNTHESIS AND CHARACTERIZATION OF REACTIVE MOLECULES (CHE-7950002 A23)*; 12 MONTHS $100,000

KNOBLER, CHARLES M; *EXPERIMENTAL CHARACTERIZATION OF NONEQUILIBRIUM AND EQUILIBRIUM STATES IN FLUID MIXTURES (CHE-7950002 A24)*; 12 MONTHS $54,000

REISS, HOWARD; *NUCLEATION AND GROWTH APPLIED TO THE DETECTION AND AMPLIFICATION OF CHEMICAL PHYSICAL PHENOMENA (CHE-7950002 A25)*; 12 MONTHS $114,000

STROUSE, CHARLES E; *MOLECULAR TRANSFORMATIONS IN THE SOLID STATE (CHE-7950002 A26*)*; 12 MONTHS $20,000

CRAM, DONALD J; *STRUCTURAL RECOGNITION IN COMPLEXATION OF ORGANIC COMPOUNDS (CHE-7950002 A27)*; 12 MONTHS $116,688

VALENTINE, JOAN S; *THE CHEMISTRY AND BIOCHEMISTRY OF SUPEROXIDE ANION (CHE-7950002 A28)*; 12 MONTHS $32,500

KIVELSON, DANIEL; *EXPERIMENTAL AND THEORETICAL STUDIES OF MOLECULAR MOTIONS IN LIQUIDS (CHE-7950002 A34)*; 12 MONTHS $105,000

TRUEBLOOD, KENNETH N; *STRUCTURAL STUDIES OF CHIRAL COMPLEXES AND RELATED SPECIES (CHE-7950002 A35)*; 12 MONTHS $42,000

UNIVERSITY OF CALIFORNIA, RIVERSIDE

SIMS, JAMES J; *INVESTIGATION OF THE CHEMICAL CONSTITUENTS OF MARINE ALGAE (CHE-7721364 A02*)*; 12 MONTHS $24,274

POE, ROBERT T; *QUANTUM THEORY OF REACTIVE, DISSOCIATIVE AND INELASTIC MOLECULAR SCATTERING (CHE-7810291 A02)*; 12 MONTHS $40,000

RETTIG, MICHAEL F, AND WING, RICHARD M; *STRUCTURAL AND CHEMICAL ASPECTS OF HALOPALLADATION (CHE-7822691 A01)*; 12 MONTHS $47,400

NEUMAN, ROBERT C; *PRESSURE EFFECTS AS PROBES OF FREE RADICAL REACTION MECHANISMS (CHE-7905954 A01)*; 12 MONTHS $41,200

SAWYER, DONALD T; *ELECTROCHEMICAL AND SPECTROSCOPIC STUDIES OF METALLOPROTEIN MODEL COMPLEXES AND OF OXYGEN ACTIVATION IN APROTIC MEDIA (CHE-7922040)*; 12 MONTHS $100,000

PITTS, JAMES N; *KINETIC, SPECTROSCOPIC AND PHOTOCHEMICAL STUDIES OF RADICALS AND MOLECULES IN THE GAS PHASE AND ON SURFACES (CHE-7927133)*; 12 MONTHS $93,800

UNIVERSITY OF CALIFORNIA, SAN DIEGO

GOODMAN, MURRAY; *SYNTHESIS, CONFORMATION ANALYSIS AND PROPERTIES OF SEQUENTIAL POLYDEPSIPEPTIDES AND POLYPEPTIDES (CHE-7850003 A12)*; 12 MONTHS $48,000

VOLD, REGITZE R; *NUCLEAR SPIN RELAXATION STUDIES OF SMALL MOLECULES IN ORDERED FLUIDS* (CHE-7850003 A13); 12 MONTHS $28,769

PERRIN, CHARLES L; *PROTON EXCHANGE IN AMIDES AND RELATED COMPOUNDS* (CHE-7950003 A07); 12 MONTHS $39,300

SHULER, KURT E; *STUDIES IN NONLINEAR STOCHASTIC PROCESSES* (CHE-7950003 A08); 12 MONTHS $40,000

WHEELER, JOHN C; *PHASE TRANSITIONS AND CRITICAL PHENOMENA IN MULTICOMPONENT SYSTEMS* (CHE-7950003 A09); 12 MONTHS $50,000

GOODMAN, MURRAY; *PURCHASE OF PICOSECOND SPECTROMETER* (CHE-7950003 A10); 12 MONTHS $116,351

TRAYLOR, TEDDY G; *MECHANISMS OF HEME-CATALYZED OXIDATIONS AND OF THERMAL AND PHOTOCHEMICAL ARENE EXCHANGE REACTIONS* (CHE-7950003 A11); 12 MONTHS $71,700

VOLD, ROBERT L, AND VOLD, REGITZE R; *STUDIES OF MOLECULAR DYNAMICS IN LIQUIDS BY NUCLEAR MAGNETIC RELAXATION IN COMPLEX SPIN SYSTEMS* (CHE-7950003 A12); 12 MONTHS $51,039

WILSON, KENT R; *MOLECULAR DYNAMICS OF CHEMICAL REACTIONS IN SOLUTION* (CHE-7950003 A13); 12 MONTHS $106,300

SCHRAUZER, GERHARD N; *NEW ORGANOMOLYBDENUM CHEMISTRY* (CHE-7950003 A14); 12 MONTHS $65,300

GOODMAN, MURRAY; *PURCHASE OF A MULTINUCLEAR FT-NMR SPECTROMETER* (CHE-7950003 A15); 12 MONTHS $138,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

BOWERS, MICHAEL T; *MECHANISMS OF ION-MOLECULE REACTIONS* (CHE-7715449 A03); 12 MONTHS $52,200

PEARSON, RALPH G; *CATALYTIC REACTIONS OF TRANSITION METAL CARBONYLS* (CHE-7727417 A02); 12 MONTHS $33,500

BUNTON, CLIFFORD A; *A QUANTITATIVE ANALYSIS OF MICELLAR CATALYSIS IN AQUEOUS SOLUTION* (CHE-7801404 A02); 10 MONTHS $45,000

METIU, HORIA I. AND CANNELL, DAVID S; *THEORETICAL AND EXPERIMENTAL STUDY OF SPINODAL DECOMPOSITION* (CHE-7816181 A01); 12 MONTHS $37,500

STEINBERG, M; *LASER INDUCED REACTIONS OF ALKALI METALS IN FLAMES* (CHE-7821458 A01); 12 MONTHS $45,492

KASKA, WILLIAM C; *PHOTOCHEMICAL REACTION MECHANISMS OF TRANSITION METAL COMPLEXES* (CHE-7826102 A01); 12 MONTHS $48,000

OFFEN, HENRY W; *HIGH PRESSURE EFFECTS ON MICELLES AND AQUEOUS SOLUTIONS* (CHE-7905965 A01); 12 MONTHS $40,000

HUBBARD, ARTHUR T; *ELECTROCHEMISTRY OF SINGLE-CRYSTAL SURFACES* (CHE-7913187 A01); 12 MONTHS $90,145

METIU, HORIA I; *THEORETICAL STUDY OF THE SPECTROSCOPY OF MOLECULES LOCATED NEAR METALLIC SURFACES* (CHE-7918773*); 12 MONTHS $21,500

LITTLE, R D; *MICHAEL INITIATED RING CLOSURE REACTIONS* (CHE-8005171); 12 MONTHS $26,965

MARTIN, RICHARD M, AND METIU, HORIA I; *SURFACE METASTABLE QUENCHING SPECTROSCOPY* (CHE-8007043); 12 MONTHS $130,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

BERNASCONI, CLAUDE F; *ACID-BASE CATALYSIS IN ELECTRON TRANSFER AND FRAGMENTATION PROCESSES* (CHE-7726998 A02); 12 MONTHS $42,500

BUNNETT, JOSEPH F; *THE FIFTH IUPAC CONFERENCE ON PHYSICAL ORGANIC CHEMISTRY, SANTA CRUZ, CALIFORNIA, AUGUST 17-22, 1980* (CHE-7918255); 12 MONTHS $5,000

BUNNETT, JOSEPH F; *AROMATIC NUCLEOPHILIC SUBSTITUTION REACTIONS* (CHE-7927119); 12 MONTHS $83,500

UNIVERSITY OF SOUTHERN CALIFORNIA

WITTRY, DAVID B; *FUNDAMENTALS OF QUANTITATIVE SPUTTERED ION MASS SPECTROSCOPY* (CHE-7710133 A02); 12 MONTHS $25,834

ADAMSON, ARTHUR W; *PHOTOCHEMISTRY OF COORDINATION COMPOUNDS* (CHE-7801324 A02); 12 MONTHS $38,000

SEGAL, GERALD A; *THEORETICAL STUDIES ON THE ELECTRONIC STATES OF MOLECULES* (CHE-7801774 A02); 12 MONTHS $40,000

REED, C A; *SYNTHETIC METALLOPORPHYRINS, OXYGEN CARRIERS AND RELATED TRANSITION METAL COMPLEXES* (CHE-7809813 A02); 12 MONTHS $39,987

BENSON, SIDNEY W; *THE KINETICS AND THERMOCHEMISTRY OF SOME IMPORTANT ATOM AND FREE RADICAL REACTIONS* (CHE-7826622 A01); 12 MONTHS $63,700

GOODMAN, MYRON F; *SELECTIVE LASER-INDUCED CHEMISTRY AND ISOTOPE SEPARATION IN POLYATOMICS: A THEORETICAL STUDY* (CHE-7910385 A01); 12 MONTHS $55,000

TAYLOR, HOWARD S; *THE INTERACTION OF ELECTRONS WITH ATOMS AND MOLECULES: FUNDAMENTAL THEORIES AND PROCESSES* (CHE-7910583 A01); 12 MONTHS $70,000

STEPHENS, PHILIP J; *EQUIPMENT FOR DICHROISM STUDIES* (PCM-7916535*); 12 MONTHS $25,000

OLAH, GEORGE A; *IONIC ORGANIC REACTIONS AND THEIR INTERMEDIATES* (CHE-7924387); 12 MONTHS $65,927

BAU, ROBERT; *NEUTRON DIFFRACTION STUDIES ON METAL HYDRIDE CLUSTER COMPLEXES AND RELATED COMPOUNDS* (CHE-7926479); 12 MONTHS $40,000

ADAMSON, ARTHUR W; *THE PHYSICALLY ADSORBED STATE* (CHE-8011095); 12 MONTHS $58,000

STEPHENS, PHILIP J; *DICHROISM SPECTROSCOPY: VIBRATIONAL CIRCULAR DICHROISM* (CHE-8011490); 12 MONTHS $120,000

BEAUDET, ROBERT A; *MICROWAVE SPECTROSCOPY OF BORON HYDRIDES, CARBORANES, AND SHORT LIVED INORGANIC SPECIES* (CHE-8012176); 12 MONTHS $45,000

ESTLER, RON C; *LASER-INDUCED FLOURESCENCE STUDIES OF ALKALINE EARTH-HYDROGEN HALIDE REACTIONS* (CHE-8012198); 12 MONTHS $50,000

STEPHENSON, LEONARD M; *MECHANISMS OF HYDROCARBON FUNCTIONALIZATION REACTIONS AND METAL-CATALYZED DIENE OLIGOMERIZATION* (CHE-8012233); 12 MONTHS $71,000

FLOOD, THOMAS C; *STEREOCHEMISTRY AND MECHANISM IN ORGANOTRANSITION METAL CHEMISTRY* (CHE-8016573); 12 MONTHS $47,385

COLORADO

COLORADO STATE UNIVERSITY

MEYERS, ALBERT I; *ASYMMETRIC CARBON-CARBON BOND FORMING REACTIONS* (CHE-7905580 A01); 12 MONTHS $51,741

BERNSTEIN, ELLIOT R; *PHOTOPHYSICS AND PHOTOCHEMISTRY OF MOLECULAR SPECIES IN CRYOGENIC LIQUIDS* (CHE-7906938 A01); 12 MONTHS $46,000

HEGEDUS, LOUIS S; *PALLADIUM ASSISTED FUNCTIONALIZATION OF OLEFINS* (CHE-7907832 A01); 12 MONTHS $28,414

NATUSCH, DAVID F; *PURCHASE OF GAS CHROMATOGRAPH/MASS SPECTROMETER/DATA SYSTEM* (CHE-7920219); 12 MONTHS $80,000

NORTON, JACK R; *OGANOMETALLIC COMPLEXES: FUNDAMENTAL PROPERTIES AND REACTION MECHANISMS* (CHE-7920373 A01); 12 MONTHS $91,900

STILLE, JOHN K; *HOMOGENEOUS PALLADIUM CATALYZED COUPLING REACTIONS* (CHE-8003336); 12 MONTHS $70,206

LADANYI, BRANKA M; *THEORY OF OPTICAL RESPONSE OF FLUIDS* (CHE-8007472); 12 MONTHS $32,629

UNIVERSITY OF COLORADO AT BOULDER

CRISTOL, STANLEY J; *INTERMEDIATES IN CHEMICAL AND PHOTOCHEMICAL PROCESSES* (CHE-7720854 A02); 12 MONTHS $40,000

STRICKLER, STEWART J; *SPECTROSCOPIC STUDIES OF ELECTRONIC PROCESSES IN MOLECULES* (CHE-7726628 A02); 12 MONTHS $35,000

HYNES, JAMES T; *THEORETICAL STUDIES OF MOLECULAR DYNAMICS IN DENSE FLUIDS* (CHE-7810050 A02); 12 MONTHS $40,000

LINEBERGER, W; *NEGATIVE ION SPECTROSCOPY* (CHE-7818424 A01); 12 MONTHS $74,400

NORMAN, ARLAN D; *SYNTHESES AND PROPERTIES OF GROUP IVA ELEMENT PHOSPHORUS COMPOUNDS* (CHE-7909497 A01); 12 MONTHS $53,005

DEPUY, CHARLES H, AND BIERBAUM, VERONICA M; *ORGANIC GAS PHASE ION-MOLECULE REACTIONS IN A FLOWING AFTERGLOW* (CHE-7909750 A01); 12 MONTHS $52,000

LEONE, STEPHEN R; *LASER STATE SELECTED KINETICS* (CHE-7911340); 12 MONTHS $90,000

BIRKS, JOHN W; *A CHEMILUMINESCENCE DETECTOR FOR GAS CHROMATOGRAPHY* (CHE-7915801 A01); 12 MONTHS $38,058

WALTON, HAROLD F; *ION-EXCHANGE RESINS IN MODERN LIQUID CHROMATOGRAPHY* (CHE-7921294); 24 MONTHS $65,090

RAKOWSKI-DUBOIS, MARY C; *AN INVESTIGATION OF THE CHEMISTRY OF A MOLYBDENUM THIOL COMPLEX* (CHE-7922250); 24 MONTHS $43,900

WALBA, DAVID M; *THE SCOPE AND MECHANISM OF THE STEREOSPECIFIC OXIDATIVE CYCLIZATIONS PROMOTED BY HIGH VALENT OXO TRANSITION METAL SPECIES* (CHE-8011391); 12 MONTHS $45,707

REINHARDT, WILLIAM P; *THEORY OF MANY BODY PROCESSES IN CHEMICAL PHYSICS* (CHE-8011442); 12 MONTHS $70,000

UNIVERSITY OF DENVER

LEYDEN, DONALD E; *INDUSTRY/UNIVERSITY COOPERATIVE PROGRAM FOR THE SYNTHESIS AND CHARACTERIZATION OF CHEMICALLY MODIFIED ADSORBENTS* (CHE-7823127 A01); 12 MONTHS $152,648

CONNECTICUT

UNIVERSITY OF CONNECTICUT

EPLING, GARY A, AND PANGANSWAMY, SRINIVASA; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: PHOTOCHEMISTRY &X-CITED STATES OF 1,4-DIENES AND ALLYLCYCLOPROPANES* (CHE-8015355*); 12 MONTHS $14,200

WESLEYAN UNIVERSITY

JACOBI, PETER A; *BIS-HETEROANNULATION-A NOVEL ROUTE TO THE FURANOTERPENES AND RELATED MATERIALS* (CHE-7900633 A02); 12 MONTHS $21,548

KOHLER, BRYAN E; *MOLECULAR SPECTROSCOPY: HIGH RESOLUTION STUDIES OF SIMPLE POLYENES* (CHE-7909444 A01); 12 MONTHS $41,550

FRY, ALBERT J; *SYNTHETIC APPLICATIONS OF ALKYL HALIDE ELECTROCHEMISTRY* (CHE-7907907 A01); 12 MONTHS $38,205

YALE UNIVERSITY

ZIEGLER, F E; *SYNTHESIS OF HYDROPYRIDOQUINOLIZINE ALKALOIDS* (CHE-7904812 A02); 12 MONTHS $27,573

COLSON, STEVEN D; *ENERGY MIGRATION AND RELAXATION IN MOLECULAR SOLIDS* (CHE-7908123 A02); 12 MONTHS $35,027

KEYES, THOMAS F; *PROBLEMS IN STATISTICAL MECHANICS OF FLUIDS* (CHE-7909704 A02); 12 MONTHS $44,000

WIBERG, KENNETH B; *PROPERTIES OF GEOMETRICALLY DISTORTED ORGANIC COMPOUNDS* (CHE-7924880 A01); 12 MONTHS $81,500

CRABTREE, ROBERT H; *NEW AREAS IN CATALYSIS: METALLATION-RESISTANT LIGANDS; THE HYDROHALOGENATION OF OLEFINS (CHE-7815313 A01)*; 12 MONTHS $41,600

CROSS, R J, AND SAUNDERS, MARTIN; *MOLECULAR BEAM STUDIES OF ORGANIC REACTIONS (CHE-7826137 A01)*; 12 MONTHS $47,500

FALLER, J W; *REACTIONS AND STEREOCHEMISTRY OF ORGANOMETALLIC COMPOUNDS RELATED TO ASYMMETRIC SYNTHESES AND CATALYTIC ACTIVITY (CHE-7911301 A01)*; 12 MONTHS $65,400

SAUNDERS, MARTIN; *STABLE SOLUTIONS OF CARBONIUM IONS; ISOTOPIC PERTURBATION FOR DETERMINING MOLECULAR SYMMETRY (CHE-8002250)*; 12 MONTHS $69,900

CROTHERS, DONALD M; *PURCHASE OF LASER SPECTROSCOPY EQUIPMENT (CHE-8008849*)*; 12 MONTHS $30,000

BERSON, JEROME A; *STRAINED RINGS, BIRADICALS, AND HIGHER SPIN ORGANIC MOLECULES (CHE-8011399)*; 12 MONTHS $96,100

COLSON, STEVEN D, AND WIBERG, KENNETH B; *INFRARED SPECTRA OF ISOLATED MOLECULES AT LOW TEMPERATURES (CHE-8017304)*; 12 MONTHS $70,000

DELAWARE

UNIVERSITY OF DELAWARE

RIDGE, DOUGLAS P; *GAS PHASE REACTIONS OF TRANSITION METAL IONS AND NONREACTIVE ION MOLECULE COLLISION PROCESSES: AN ION CYCLOTRON RESONANCE INVESTIGATION (CHE-7709952 A02)*; 12 MONTHS $27,000

RECHNITZ, GARRY A; *BIO-SELECTIVE ELECTRODES USING LIVING BACTERIAL CELLS (CHE-7728158 A02)*; 12 MONTHS $31,018

HECK, RICHARD F; *SUBSTITUTION REACTIONS BY ORGANOTRANSITION METAL COMPOUNDS AT UNSATURATED CARBON (CHE-8006119)*; 12 MONTHS $69,115

WOOD, ROBERT H; *INTERACTIONS OF SALTS AND NONELECTROLYTES IN AQUEOUS SOLUTIONS (CHE-8009672)*; 12 MONTHS $75,000

DISTRICT OF COLUMBIA

AMERICAN CHEMICAL SOCIETY (ACS)

NEUMAN, ROBERT K; *SURVEY ON THE USE OF COMPUTERS IN CHEMICAL RESEARCH AT U.S. UNIVERSITIES (CHE-7927043)*; 12 MONTHS $17,500

GEORGETOWN UNIVERSITY

WEISS, RICHARD G; *ORDERED MEDIA AS MECHANISTIC TOOLS FOR INVESTIGATION OF THERMAL AND PHOTOCHEMICAL ORGANIC REACTIONS (CHE-7906571 A01)*; 12 MONTHS $41,000

MARTIRE, DANIEL E; *BASIC ANALYTICAL, THERMODYNAMIC AND THEORETICAL STUDIES INVOLVING GAS AND LIQUID CHROMATOGRAPHY (CHE-7919322)*; 12 MONTHS $91,460

HOWARD UNIVERSITY

JACKSON, WILLIAM M; *DYNAMICS OF M... TIPHOTON ULTRAVIOLET PHOTODISSOCIATION (CHE-7905375 A02)*; 12 MONTHS $46,000

HUDRLIK, PAUL F; *ORGANOSILICON COMPOUNDS IN STEREOSPECIFIC SYNTHESIS (CHE-7926181)*; 12 MONTHS $66,429

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

SPINDEL, WILLIAM; *SUPPORT OF A STANDING COMMITTEE ON CHEMICAL SCIENCES (CHE-7909931 A01)*; 12 MONTHS $17,000

OPTICAL SOCIETY OF AMERICA

QUINN, JARUS W; *MEETING ON PICOSECOND PHENOMENA, CAPE COD, MASSACHUSETTS, JUNE 18-20, 1980 (CHE-8001741)*; 11 MONTHS $9,000

FLORIDA

FLORIDA STATE UNIVERSITY

SALTIEL, JACK; *MECHANISMS OF PHOTOCHEMICAL REACTIONS (CHE-7723582 A02)*; 12 MONTHS $35,000

LEVY, GEORGE C; *MULTIPLE FREQUENCY CARBON-13 SPIN RELAXATION AND ELUCIDATION OF COMPLEX MOLECULAR DYNAMICS (CHE-7726473 A02)*; 12 MONTHS $47,300

CLARK, RONALD J; *HOT ATOM CHEMISTRY OF TRIFLUOROPHOSPHINE COMPOUNDS (CHE-7727750 A02)*; 12 MONTHS $30,000

HERZ, WERNER; *BIOGENETICALLY-PATTERNED CYCLIZATIONS AND REARRANGEMENTS OF TERPENOIDS (CHE-7801191 A01)*; 12 MONTHS $41,800

WALBORSKY, HARRY M; *ISOCYANIDES. SYNTHETIC EXPLORATIONS (CHE-7823810 A01)*; 12 MONTHS $22,933

WALBORSKY, HARRY M; *ISOCYANIDES, SYNTHETIC EXPLORATIONS (CHE-7823810 A02)*; $4,000

RHODES, WILLIAM C; *PURCHASE OF LASER SPECTROSCOPIC EQUIPMENT (CHE-8013726*)*; 12 MONTHS $109,000

UNIVERSITY OF FLORIDA

MICHA, DAVID A; *THEORETICAL AND COMPUTATIONAL METHODS OF MOLECULAR COLLISION DYNAMICS (CHE-7830000 A15)*; 12 MONTHS $31,000

LAITINEN, HERBERT A, VAN RINSVELT, H A, AND HOFLUND, GAR B; *PREPARATION, STRUCTURE AND CATALYTIC BEHAVIOR OF PLATINIZED TIN OXIDE (CHE-7850000 A16)*; 12 MONTHS $60,000

MONKHORST, HENDRIK J; *MOMENTUM SPACE QUANTUM CHEMISTRY-AN ALTERNATIVE TO CONVENTIONAL METHODS (CHE-7906139 A01)*; 12 MONTHS $38,500

HOOPER, CHARLES; *STATIC AND DYNAMIC STRUCTURE OF SIMPLE FLUIDS (CHE-7926385)*; 12 MONTHS $34,000

PERSON, WILLIS B; *UNDERSTANDING INFRARED INTENSITIES (CHE-7950000 A06)*; 12 MONTHS $30,300

WELTNER, WILLIAM J R; *ESR AND OPTICAL SPECTROSCOPY OF IONS, CLUSTERS, AND HYDRIDES (CHE-7950000 A07)*; 12 MONTHS $70,000

BATES, ROGER G; *SALT AND SOLVENT EFFECTS ON ANALYTICAL PROCESSES (CHE-7950000 A08)*; 24 MONTHS $63,400

JONES, WILLIAM M; *CYCLIC CONJUGATED CARBENES AND ALLENES: FREE AND COMPLEXED TO TRANSITION METALS (CHE-7950000 A09)*; 12 MONTHS $62,400

OHRN, N Y; *THEORETICAL STUDIES OF LOCALIZED STATES IN POLYATOMIC SYSTEMS (CHE-7950000 A10)*; 12 MONTHS $35,069

DOLBIER, WILLIAM R; *THERMAL CHEMISTRY OF FLUORINATED HYDROCARBONS (CHE-7950000 A11)*; 12 MONTHS $57,000

OHRN, N Y; *PURCHASE OF HIGH-FIELD NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-7950000 A12)*; 12 MONTHS $140,000

VALA, MARTIN T; *EXCITED STATE SPECTROSCOPY IN THE INFRARED REGION USING A FOURIER TRANSFORM INFRARED SPECTROMETER (CHE-7950000 A13)*; 24 MONTHS $40,000

YOST, RICHARD A; *TRIPLE QUADRUPOLE MS/MS FOR DIRECT MIXTURE ANALYSIS (CHE-7950000 A14)*; 4 MONTHS $46,000

UNIVERSITY OF MIAMI

CRISS, CECIL M; *THERMODYNAMIC PROPERTIES OF NONAQUEOUS ELECTROLYTIC SOLUTIONS (CHE-7913154 A01)*; 12 MONTHS $44,700

UNIVERSITY OF SOUTH FLORIDA

STEVENS, BRIAN; *AN EXPERIMENTAL EVALUATION OF SOLUTE RE-ENCOUNTER EFFECTS AND PROBABILITIES (CHE-7801578 A02)*; 12 MONTHS $43,000

GEORGIA

EMORY UNIVERSITY

PADWA, ALBERT; *INTRAMOLECULAR DIPOLAR CYCLOADDITION REACTIONS (CHE-7900919 A01)*; 12 MONTHS $53,000

MANDELL, LEON; *AN APPROACH TO THE QUASSINOIDS -- THE SYNTHESIS OF QUASSIN (CHE-7917570)*; 12 MONTHS $35,418

GEORGIA INSTITUTE OF TECHNOLOGY

BROWNER, RICHARD F, AND MATTESON, MICHAEL J; *SAMPLE PREPARATION AND INTRODUCTION FOR ANALYTICAL ATOMIC SPECTROSCOPY (CHE-7707618 A03)*; 12 MONTHS $64,000

ASHBY, EUGENE C; *ORGANOMETALLIC CHEMISTRY OF THE MAIN GROUP ELEMENTS. MECHANISMS, STEREOCHEMISTRY AND TRANSITION METAL CATALYSIS (CHE-7800757 A02)*; 12 MONTHS $42,000

CAINE, DRURY S; *SYNTHETIC STUDIES ON SESQUITERPENOIDS (CHE-7810044 A01)*; 12 MONTHS $23,400

BURGESS, EDWARD M; *NEW FUNCTIONAL GROUPS AND HYPERVALENT MOLECULES (CHE-7900923 A01)*; 12 MONTHS $27,000

GOLE, JAMES L; *CHARACTERIZATION OF METAL AGGREGATES (CHE-7909075 A01)*; 12 MONTHS $39,000

GROVENSTEIN, ERLING; *CATION EFFECTS IN ORGANOALKALI METAL CHEMISTRY. ORGANOCESIUM CHEMISTRY (CHE-8009810)*; 12 MONTHS $60,000

UNIVERSITY OF GEORGIA

ROGERS, L B; *SELECTIVITY IN ANALYTICAL CHEMICAL SYSTEMS (CHE-7813269 A03)*; $21,160

HOLT, SMITH L; *CHEMICAL PROCESSES IN MICROEMULSIONS (CHE-7913802)*; 12 MONTHS $51,700

HOLT, SMITH L; *CHEMICAL PROCESSES IN MICROEMULSIONS (CHE-7913802 A01)*; $8,664

ROGERS, L B; *SELECTIVITY IN ANALYTICAL CHEMICAL SYSTEMS (CHE-8040111)*; 12 MONTHS $40,000

HAWAII

UNIVERSITY OF HAWAII-MANOA

HENKE, BURTON L; *APPLICATON OF ANGULAR-DEPENDENT PHOTOELECTRON SPECTROSCOPY IN COMBINATION WITH OTHER METHODS TO SURFACE-CHEMICAL AND SOLID-STATE ANALYSIS (CHE-7624506 A04)*; 6 MONTHS $23,500

SEVY, KARL; *STRUCTURAL CHARACTERIZATION OF INTRAZEOLITIC CHEMISTRY (CHE-7712495 A02)*; 12 MONTHS $45,000

ANDERMANN, GEORGE; *THE DEVELOPMENT OF HIGH RESOLUTION X-RAY EMISSION SPECTROSCOPY FOR MOLECULAR ELECTRONIC STRUCTURAL STUDIES (CHE-7824884 A01)*; 12 MONTHS $53,453

MOORE, RICHARD E; *NATURAL PRODUCTS FROM MARINE ORGANISMS (CHE-7925416)*; 12 MONTHS $52,209

SCHEUER, PAUL J; *CHEMICAL COMMUNICATION OF MARINE INVERTEBRATES (CHE-8005780)*; 12 MONTHS $59,757

IDAHO

UNIVERSITY OF IDAHO

SHREEVE, JEAN'NE M; *FLUORINATED TETRA- AND PENTACOORDINATE SULFUR COMPOUNDS (CHE-7727395 A02)*; 12 MONTHS $61,551

SHREEVE, JEAN'NE M; *PURCHASE OF NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-7909984)*; 12 MONTHS $50,000

BROWN, DENNIS G; *CHEMICAL MODEL SYSTEMS FOR DIOXYGENASES (CHE-7926409)*; 24 MONTHS $67,053

ILLINOIS

ARGONNE NATIONAL LABORATORY

WILLIAMS, JACK M; *NEUTRON DIFFRACTION CRYSTAL AND MOLECULAR STRUCTURE STUDIES* (CHE-7820698 A01); 12 MONTHS $76,390

ILLINOIS INSTITUTE OF TECHNOLOGY

BOWMAN, JOEL M; *THEORY OF MOLECULAR COLLISION DYNAMICS* (CHE-7822106 A01); 12 MONTHS $29,836

LANGHOFF, C A; *PICOSECOND STUDIES OF CHEMICAL DYNAMICS IN SOLUTION* (CHE-7908628); 12 MONTHS $40,300

SHIRK, JAMES S; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ON INTRACAVITY LASER SPECTROSCOPY* (CHE-7909380 A01*); 12 MONTHS $32,500

BOWMAN, JOEL M; *DYNAMICS OF OXYGEN ATOM REACTIONS* (CHE-8006573); 12 MONTHS $81,000

LOYOLA UNIVERSITY OF CHICAGO

JAMESON, A K; *PROBING INTRA- AND INTERMOLECULAR INTERACTIONS WITH NMR AND OTHER OBSERVABLES* (CHE-7709197 A02); 12 MONTHS $23,000

NORTHERN ILLINOIS UNIVERSITY

KNUDTSON, J THOMAS; *VIBRATIONAL ENERGY TRANSFER IN LIQUID HYDROGEN HALIDES* (CHE-7817924 A01); 24 MONTHS $36,235

SPANGLER, CHARLES W; *PURCHASE OF A HIGH PRESSURE LIQUID CHROMATOGRAPHY SYSTEM* (CHE-7909235); 12 MONTHS $12,400

NORTHWESTERN UNIVERSITY

IBERS, JAMES A; *STRUCTURES AND PROPERTIES OF TRANSITION METAL COMPOUNDS* (CHE-7610335 A05); 4 MONTHS $28,000

SMITH, DONALD E; *FOURIER TRANSFORM ELECTROCHEMICAL RELAXATION METHODS: A STUDY OF THEORY, APPLICATIONS, AND INSTRUMENTATION* (CHE-7715462 A03); 12 MONTHS $80,000

LEWIS, FREDERICK D; *MOLECULAR COMPLEXES IN ORGANIC AND ORGANOMETALLIC PHOTOCHEMISTRY* (CHE-7801120 A02); 12 MONTHS $53,200

TROGLER, WILLIAM C; *PHOTOCHEMICAL PRODUCTION OF MULTIPLY COORDINATIVELY UNSATURATED METAL COMPLEXES* (CHE-7801615 A02); 12 MONTHS $30,000

MARSHALL, JAMES A; *NEW SYNTHETIC APPROACHES TO CARBOCYCLIC COMPOUNDS* (CHE-7801755 A02); 3 MONTHS $20,854

RATNER, MARK A; *ELECTRONIC STRUCTURE CALCULATIONS EMPLOYING PSEUDOPOTENTIALS: THEORETICAL DEVELOPMENTS AND APPLICATIONS TO SILICON CHEMISTRY* (CHE-7812214 A01); 12 MONTHS $31,971

SCHATZ, GEORGE C; *THEORETICAL STUDIES OF CHEMICAL REACTIONS AND COLLISIONAL ENERGY TRANSFER BETWEEN SMALL MOLECULES* (CHE-7830136 A01); 12 MONTHS $40,000

VAN DUYNE, RICHARD P; *MOLECULAR CHARACTERIZATION OF THE ELECTRODE SOLUTION INTERFACE BY RAMAN SPECTROSCOPIC TECHNIQUES* (CHE-7824868 A01); 12 MONTHS $75,098

LAMBERT, JOSEPH B; *NUCLEAR MAGNETIC RESONANCE AS A STRUCTURAL, KINETIC AND MECHANISTIC TOOL* (CHE-7905542 A01); 12 MONTHS $49,474

WEITZ, ERIC; *LASER INDUCED CHEMISTRY AND ENERGY TRANSFER IN SMALL MOLECULES* (CHE-7908501 A01); 12 MONTHS $52,567

STAIR, PETER C; *SURFACE CHEMISTRY OF PARTIALLY OXIDIZED MOLYBDENUM SURFACES* (CHE-7909268 A01); 12 MONTHS $40,000

DEFORD, DONALD D; *PURCHASE OF A GAS CHROMATOGRAPH MASS SPECTROMETER SYSTEM* (CHE-7911316); 12 MONTHS $79,000

SHRIVER, DUWARD F; *ACID ASSISTED REACTIONS OF COORDINATED CARBON MONOXIDE* (CHE-7918010 A01); 12 MONTHS $59,000

MARKS, TOBIN J; *NATIONAL ORGANOMETALLIC CHEMISTRY WORKSHOPS: NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS, JUNE 25-27, 1980 AND 1981* (CHE-8001656); 24 MONTHS $23,867

BORDWELL, FREDERICK G; *EQUILIBRIA AND RATES IN DIPOLAR NONHYDROXYLIC SOLVENTS* (CHE-8007844); 12 MONTHS $99,200

MARKS, TOBIN J; *STOICHIOMETRIC AND CATALYTIC ORGANO-F-ELEMENT CHEMISTRY* (CHE-8009060); 12 MONTHS $70,300

IBERS, JAMES A; *STRUCTURES AND PROPERTIES OF TRANSITION METAL COMPLEXES* (CHE-8009671); 14 MONTHS $128,000

BENDER, MYRON L; *MECHANISMS OF CATALYSIS OF ORGANIC REACTIONS* (CHE-8012697); 9 MONTHS $48,800

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

COX, JAMES A; *APPLICATIONS OF DONNAN DIALYSIS TO CHEMICAL ANALYSIS* (CHE-7908660); 24 MONTHS $58,129

ST LOUIS UNIVERSITY-PARKS COLLEGE

VIEHLAND, LARRY A; *ION MOTION IN GASES* (CHE-8002669); 24 MONTHS $33,500

UNIVERSITY OF CHICAGO

FREED, KARL F; *THEORETICAL STUDIES IN CHEMISTRY* (CHE-7724652 A02); 12 MONTHS $67,500

HALPERN, JACK; *COORDINATION CHEMISTRY AND HOMOGENEOUS CATALYSIS* (CHE-7801192 A03); 12 MONTHS $145,956

FREED, KARL F; *THEORETICAL AND EXPERIMENTAL STUDIES OF INTRAMOLECULAR AND INTERMOLECULAR DYNAMICS* (CHE-7801573 A03); 12 MONTHS $56,500

OXTOBY, DAVID W; *COLLISION-INDUCED SCATTERING AND ABSORPTION BY ATOMS AND MOLECULES* (CHE-7801596 A02); 12 MONTHS $35,000

YANG, N C; *PHOTOCHEMISTRY OF ORGANIC COMPOUNDS* (CHE-7805680 A02); 12 MONTHS $69,000

EATON, PHILIP E; *SYNTHESIS AND CHEMISTRY OF UNUSUAL POLYCYCLIC SYSTEMS* (CHE-7807430 A02); $9,000

EATON, PHILIP E; *SYNTHESIS AND CHEMISTRY OF UNUSUAL POLYCYCLIC SYSTEMS* (CHE-7807430 A03); 12 MONTHS $70,100

HUTCHISON, CLYDE A; *MAGNETIC RESONANCE AND OPTICAL EMISSION OF F-ELECTRON IONS* (CHE-7811584 A03); 12 MONTHS $42,000

KLEPPA, OLE J; *HIGH TEMPERATURE CALORIMETRY OF REFRACTORY SYSTEMS* (DMR-7811657 A02*); 12 MONTHS $45,744

EVANS, WILLIAM J; *SYNTHESIS AND CHEMICAL REACTIVITY OF COMPLEXES OF THE LANTHANIDE METALS WITH UNSATURATED ORGANIC SUBSTRATES* (CHE-7812229 A03); 12 MONTHS $28,000

NACHTRIEB, NORMAN H; *MAGNETIC, SPECTROSCOPIC, AND ELECTRICAL PROPERTIES OF MOLTEN SALTS* (CHE-7812487 A02); 12 MONTHS $47,900

BURDETT, J K; *MATRIX ISOLATION AND COORDINATION CHEMISTRY* (CHE-7820596 A01); 12 MONTHS $40,000

CLOSS, GERHARD L; *SHORT-LIVED ORGANIC REACTION INTERMEDIATES* (CHE-7821789 A01); 12 MONTHS $104,000

LEVY, DONALD H; *SPECTROSCOPY IN SUPERSONIC MOLECULAR BEAMS* (CHE-7825555 A01); 12 MONTHS $127,000

SMITH, JOSEPH V; *CRYSTAL STRUCTURES OF ZEOLITE MOLECULAR SIEVES AND CATALYSTS* (CHE-7826579 A01); 12 MONTHS $35,000

BERRY, R STEPHEN; *ATOMIC AND MOLECULAR PROCESSES* (CHE-7901166 A01); 12 MONTHS $43,500

LIGHT, JOHN C; *THEORY OF GAS PHASE DYNAMICAL PROCESSES* (CHE-7906896 A01); 12 MONTHS $61,956

RICE, STUART A; *THEORETICAL AND EXPERIMENTAL STUDIES OF LIQUIDS AND LIQUID SURFACES* (CHE-8005877); 18 MONTHS $217,867

GOMER, ROBERT; *ADSORPTION ON METALS* (CHE-8007999); 14 MONTHS $126,000

FLEMING, GRAHAM R; *INFLUENCE OF SOLVENT-SOLUTE INTERACTIONS ON MOLECULAR DYNAMICS* (CHE-8009216); 12 MONTHS $120,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

JAMESON, CYNTHIA J; *PROBING INTRA- AND INTERMOLECULAR INTERACTIONS WITH GAS PHASE MNR AND OTHER OBSERVABLES* (CHE-7709133 A02); 12 MONTHS $35,099

KEIDERLING, TIMOTHY A; *EXPERIMENTAL AND THEORETICAL STUDIES OF VIBRATIONAL CIRCULAR DICHROISM* (CHE-7714615 A02); 12 MONTHS $36,000

GORDON, ROBERT J; *INFRARED LASER INDUCED CHEMICAL REACTIONS* (CHE-7807998 A02); 12 MONTHS $50,793

ROCEK, JAN; *CHEMISTRY OF CHROMIUM(V): THREE-ELECTRON OXIDATIONS* (CHE-7909145 A02); 12 MONTHS $48,500

YOUNG, PAUL R; *THE DRIVING FORCE FOR MECHANISMS OF NUCLEOPHILIC SUBSTITUTION AT TRIVOORDINATE SULFUR* (CHE-8000054); 12 MONTHS $34,700

SAGER, WILLIAM F; *PURCHASE OF A RESEARCH SPECTROPHOTOMETER WITH ACCESSORIES* (CHE-8007273); 12 MONTHS $25,000

MORRISON, JOHN A; *REACTIONS OF NEWLY DEVELOPED TRIFLUOROMETHYL AND PERFLUOROALKYL LIGAND EXCHANGE REAGENTS WITH TRANSITION METAL SPECIES* (CHE-8016524); 24 MONTHS $54,800

UNIVERSITY OF ILLINOIS AT URBANA

MCDONALD, J D; *EXPERIMENTAL INVESTIGATIONS OF INTERNAL ENERGY DISTRIBUTIONS OF REACTION PRODUCTS* (CHE-7850001 A39); 12 MONTHS $70,000

FLYGARE, WILLIS H; *HIGH RESOLUTION MICROWAVE SPECTROSCOPY* (CHE-7850001 A40*); 12 MONTHS $163,300

SCHUSTER, GARY B; *INVESTIGATION OF CHEMICAL LIGHT FORMATION* (CHE-7850001 A41); 12 MONTHS $30,000

STUCKY, GALEN D; *STRUCTURE AND CHEMISTRY OF MAIN GROUP AND EARLY TRANSITION METAL ORGANOMETALLIC COMPOUNDS* (CHE-7850001 A42); 12 MONTHS $48,200

FAULKNER, LARRY R; *THE CREATION AND DESTRUCTION OF EXCITED STATES BY ELECTRON TRANSFER* (CHE-7850001 A43); 12 MONTHS $91,300

ARDUENGO, A J; *NEW AND UNUSUAL BONDING SYSTEMS AND SILYL ESTER OF INORGANIC ACIDS* (CHE-7850001 A44); 12 MONTHS $28,600

BEAK, PETER A; *CHEMICAL STUDIES OF STRUCTURE AND STABILITY* (CHE-7850001 A45); 12 MONTHS $36,000

NIEMAN, TIMOTHY A; *NEW APPROACHES TO CHEMILUMINESCENCE ANALYSIS* (CHE-7850001 A46); 12 MONTHS $33,000

PIRKLE, WILLIAM H; *STEREOSPECIFIC SOLVATION STUDIES* (CHE-7850001 A47); 12 MONTHS $53,000

DRAGO, RUSSELL S; *QUANTITATIVE INVESTIGATIONS OF CHEMICAL REACTIVITY* (CHE-7850001 A48); 12 MONTHS $57,500

GUTOWSKY, H S; *NUCLEAR MAGNETIC RESONANCE* (PCM-7911148*); 12 MONTHS $27,500

DYKSTRA, CLIFFORD E; *SELF-CONSISTENT ELECTRON PAIR THEORY* (CHE-7950001 A09); 12 MONTHS $29,700

RAUCHFUSS, THOMAS B; *REACTIONS OF COORDINATED SULFUR LIGANDS* (CHE-7950001 A10); 12 MONTHS $28,000

CHANDLER, DAVID; *THEORY OF SOLVENT EFFECTS ON CHEMICAL EQUILIBRIA AND THE CONFORMATIONAL STRUCTURES OF SMALL CHAIN MOLECULES* (CHE-7950001 A11); 12 MONTHS $50,000

LEONARD, NELSON J; *REARRANGEMENTS AND INTERACTIONS, ESPECIALLY OF NUCLEIC ACID BASES* (CHE-7950001 A12); 12 MONTHS $95,800

SECREST, DONALD H; *GAS PHASE COLLISION PROCESSES* (CHE-7950001 A13); 12 MONTHS $47,500

CURTIN, DAVID Y, AND PAUL, IAIN C; *REACTIONS OF MOLECULAR CRYSTALS* (CHE-7950001 A14); 12 MONTHS $80,000

COATES, ROBERT M; *TOTAL SYNTHESIS OF CERTAIN TERPENOID NATURAL PRODUCTS* (CHE-7950001 A15); 12 MONTHS $35,500

WOLYNES, PETER G; *NONEQUILIBRIUM STATISTICAL MECHANICS* (CHE-7950001 A16); 12 MONTHS $61,000

JONAS, JIRI; *EXPERIMENTAL STUDIES OF THE DYNAMIC STRUCTURE OF LIQUIDS* (CHE-7950071 A17); 15 MONTHS $118,000

MARTIN, JAMES C; *REACTIVE INTERMEDIATES USEFUL IN SYNTHESIS* (CHE-7950001 A18); 12 MONTHS $79,400

BROWN, THEODORE L; *MECHANISTIC STUDIES IN ORGANOMETALLIC CHEMISTRY* (CHE-7950001 A19); 14 MONTHS $104,300

GUTOWSKY, H S; *PURCHASE OF A FOURIER TRANSFORM INFRARED SPECTROMETER* (CHE-7950001 A20); 12 MONTHS $79,107

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

HIEFTJE, GARY M; *CHARACTERIZATION AND OPTIMIZATION OF FLAME SPECTROMETRIC PROCESSES AND TECHNIQUES* (CHE-7722152 A03); 12 MONTHS $58,839

KOCHI, JAY K; *ELECTROCHEMICAL AND ESR STUDIES OF METASTABLE ORGANOMETALLIC SPECIES* (CHE-7906695 A02); 12 MONTHS $32,000

GAJEWSKI, JOSEPH J; *NEW CROSS-CONJUGATED BIRADICALS* (CHE-7820710 A01); 12 MONTHS $47,000

KOCHI, JAY K; *OXIDATION-REDUCTION AND HOMOGENEOUS CATALYSIS OF ORGANIC COMPOUNDS BY METAL SPECIES* (CHE-7909631 A01); 12 MONTHS $87,900

SHINER, VERNON J; *ISOTOPE EFFECTS AND NUCLEOPHILIC SUBSTITUTION, ELIMINATION AND REARRANGEMENT* (CHE-7910015 A03); 12 MONTHS $58,800

HIEFTJE, GARY M; *DEVELOPMENT AND EVALUATION OF INSTRUMENTATION AND METHODS FOR MULTI ELEMENT ANALYSIS* (CHE-7918073); 12 MONTHS $55,348

PARMENTER, CHARLES S; *ENERGY CONVERSION MECHANISMS IN POLYATOMIC VAPORS* (CHE-7914077); 12 MONTHS $115,000

BARTMESS, JOHN E; *GAS PHASE ORGANIC NEGATIVE ION MOLECULE REACTIONS* (CHE-7919528); 12 MONTHS $57,000

BONHAM, RUSSELL A; *HIGH ENERGY ELECTRON IMPACT SPECTROSCOPY* (CHE-8000253); 12 MONTHS $63,792

CHISHOLM, MALCOLM H; *THE DEVELOPMENT OF DINUCLEAR AND POLYNUCLEAR CLUSTER TRANSITION METAL CHEMISTRY* (CHE-8001673); 12 MONTHS $63,500

LANGHOFF, PETER W; *THEORETICAL STUDIES IN MOLECULAR IONIZATION SPECTROSCOPY* (CHE-8002080); 12 MONTHS $35,000

ORTOLEVA, PETER J; *INSTABILITY AND NONLINEAR PHENOMENA IN PHYSICO-CHEMICAL SYSTEMS* (CHE-8002436); 12 MONTHS $21,000

JACOBSON, RICHARD M; *SECOND MIDWEST REGIONAL ORGANIC SYNTHESIS WORKSHOP; MANOR HOUSE, BRADFORD WOODS, INDIANA, MAY 22-24, 1980* (CHE-8004674); 12 MONTHS $1,913

CAULTON, KENNETH G; *REDUCTIVE OLIGOMERIZATION OF CARBON MONOXIDE* (CHE-8006331); 12 MONTHS $62,400

PURDUE UNIVERSITY

LOUDON, GORDON M; *NEW METHODS OF SPECIFIC CLEAVAGE OF POLYPEPTIDE CHAINS* (CHE-7724493 A02); 12 MONTHS $33,000

DIESTLER, DENNIS J; *THEORETICAL STUDIES OF MOLECULAR RELAXATION* (CHE-7723717 A02); 12 MONTHS $30,000

LYTLE, FRED E; *ANALYTICAL APPLICATIONS OF NONLINEAR SPECTROSCOPY* (CHE-7724312 A03); 12 MONTHS $51,600

WINFREE, ARTHUR T; *WAVE GEOMETRY OF DIFFUSION-COUPLED REACTIONS* (CHE-7724849 A02); 12 MONTHS $48,000

SQUIRES, ROBERT G, AND COOKS, ROBERT G; *ESCA-SIMS AND PARTICLE/SURFACE INTERACTIONS: FOR PREPARATION AND ANALYSIS OF SURFACES* (CHE-7908729 A02); 12 MONTHS $74,171

JORGENSEN, WILLIAM L; *THEORETICAL STUDIES OF MOLECULAR LIQUIDS AND THE SOLVATION OF ORGANIC MOLECULES AND IONS* (CHE-7919446 A01); 12 MONTHS $36,000

MARGERUM, DALE W, AND PARDUE, HARRY L; *STUDY AND APPLICATION OF ARRAY DETECTORS: CHEMISTRY OF CHLORAMINES: KINETIC METHODS OF ANALYSIS* (CHE-7922454 A01); 12 MONTHS $59,057

ADELMAN, STEVEN A; *HYDRODYNAMIC AND ELECTROSTATIC THEORIES OF TRANSPORT AND STRUCTURE IN LIQUID SOLUTIONS* (CHE-7828043 A01); 12 MONTHS $28,000

FUCHS, PHILIP L; *TOTAL SYNTHESIS CYTOCHALASIN C* (CHE-7905[illegible] A01); $6,450

FUCHS, PHILIP L; *TOTAL SYNTHESIS OF CYTOCHALASIN C* (CHE-7905953 A01); 12 MONTHS $33,500

WALTON, RICHARD A; *LOW OXIDATION STATE TRANSITION METAL COMPLEXES CONTAINING METAL-METAL BONDS* (CHE-7909133 A01); 12 MONTHS $48,500

GRUTZNER, JOHN B; *MECHANISMS OF CARBANION-INDUCED BOND BREAKING* (CHE-7916331); 12 MONTHS $42,500

BROWN, HERBERT C; *ORGANOBORANES - NEW CHEMISTRY AND MECHANISMS* (CHE-7918881); 12 MONTHS $92,000

MORRISON, HARRY A; *PHOTOCHEMICAL CONSEQUENCES OF INTERCHROMOPHORIC INTERACTIONS* (CHE-7904499); 12 MONTHS $54,800

KORNBLUM, NATHAN; *NEW REACTIONS BASED ON ELECTRON TRANSFER PROCESSES* (CHE-8000118); 12 MONTHS $52,711

FREISER, BEN S; *REACTIONS OF METAL IONS AND THEIR CLUSTERS IN THE GAS PHASE USING LASER IONIZATION - ION CYCLOTRON RESONANCE SPECTROSCOPY* (CHE-8004935); 12 MONTHS $80,000

MARGERUM, DALE W; *PURCHASE OF A HIGH FIELD NMR SPECTROMETER* (CHE-8004248); 12 MONTHS $114,000

JORGENSEN, WILLIAM L; *COMPUTER ASSISTED MECHANISTIC ANALYSIS OF ORGANIC REACTIONS* (CHE-8007965); 12 MONTHS $46,000

MARGERUM, DALE W; *PURCHASE OF A GAS CHROMATOGRAPH-MASS SPECTROMETER* (CHE-8010832); 12 MONTHS $85,000

COOKS, ROBERT G; *MIXTURE ANALYSIS BY MASS SPECTROMETRY/MASS SPECTROMETRY: NEW METHODOLOGIES AND INSTRUMENTATION* (CHE-8011423); 12 MONTHS $93,710

UNIVERSITY OF NOTRE DAME

FEHLNER, THOMAS P; *BIMETALLOBORANES: SYNTHESIS AND REACTIVITY* (CHE-7811600 A02); 12 MONTHS $36,000

THOMAS, J K; *PHOTOCHEMICAL REACTIONS IN AND THE STRUCTURE OF MICROEMULSIONS* (CHE-7824867 A01); 12 MONTHS $51,900

FEHLNER, THOMAS P; *METAL-METAL INTERACTIONS IN CLUSTERS BY PHOTOELECTRON SPECTROSCOPY* (CHE-7915220 A01); 12 MONTHS $40,000

LABINGER, JAY A; *HOMOGENEOUS CATALYSIS OF CO REDUCTION: BIMETALLIC SYSTEMS INVOLVING EARLY TRANSITION METAL HYDRIDES* (CHE-8006518); 12 MONTHS $48,792

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

ANGELICI, ROBERT J; *MULTIDENTATE ISONITRILE, NITRILE, ACETYLIDE, AND DIAZENATO LIGANDS* (CHE-7907911 A02); 12 MONTHS $42,500

VERKADE, JOHN G; *CONSEQUENCES OF ORBITAL CONSTRAINTS IN ORGANOPHOSPHORUS COMPOUNDS ON LIGATION* (CHE-7919937 A01); 12 MONTHS $51,700

RUSSELL, GLEN A; *CHEMISTRY OF RADICAL ANIONS AS REACTION INTERMEDIATES* (CHE-7923868 A01); 12 MONTHS $41,800

FRITZ, J S, AND SVEC, HARRY J; *METHODS OF DETERMINING TRACE ORGANIC SOLUTES IN POTABLE WATER SUPPLIES* (CHE-7906109); 12 MONTHS $61,050

ANGELICI, ROBERT J; *PURCHASE OF A FOURIER TRANSFORM INFRARED SPECTROMETER WITH GAS CHROMATOGRAPH ATTACHMENT* (CHE-7912160); 12 MONTHS $64,000

MARTIN, DON S; *POLARIZED OPTICAL ABSORPTION SPECTROSCOPY OF COORDINATION COMPLEXES IN SINGLE CRYSTALS* (CHE-8007447); 13 MONTHS $44,000

ANGELICI, ROBERT J; *PURCHASE OF ND:YAG PUMPED DYE LASER SYSTEM* (CHE-8016154); 12 MONTHS $60,040

UNIVERSITY OF IOWA

BURTON, DONALD J; *YLIDE FLUOROOLEFIN CHEMISTRY* (CHE-7714810 A02); 12 MONTHS $41,377

STWALLEY, WILLIAM C; *LONG RANGE MOLECULES* (CHE-7714691 A04); $6,000

TARDY, DWIGHT C; *A SEARCH FOR NONSTATISTICAL BEHAVIOR IN MULTIPHOTON DISSOCIATION OF POLYATOMIC MOLECULES* (CHE-7818701 A01); 12 MONTHS $49,900

COUCOUVANIS, DIMITRI N; *SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF METAL CLUSTERS AND METAL-SULFUR COORDINATION COMPOUNDS* (CHE-7903899 A01); 12 MONTHS $35,000

COFF, HAROLD; *PREPARATION OF HIGH OXIDATION STATE METALLOPORPHYRINS* (CHE-7910806 A01); 12 MONTHS $35,677

SANDO, KENNETH M; *A THEORETICAL INVESTIGATION OF SPECTRAL LINE SHAPE* (CHE-7912456 A01); 12 MONTHS $50,000

PIETRZYK, DONALD J; *THE CHROMATOGRAPHY OF AMINO ACIDS, PEPTIDES AND AMINO ACID DERIVATIVES* (CHE-7911980); 12 MONTHS $37,315

SCHEELINE, ALEXANDER; *PROPERTIES OF FREE ELECTRONS IN ANALYTICALLY USEFUL ELECTRICAL DISCHARGES* (CHE-7919701); 13 MONTHS $36,211

DAVIS, LEODIS; *PURCHASE OF GAS CHROMATOGRAPHY MASS SPECTROMETER SYSTEM* (CHE-8007937); 12 MONTHS $79,000

KANSAS

KANSAS STATE UNIVERSITY

SETSER, DONALD W; *ENERGY DISPOSAL AND ENERGY REQUIREMENTS OF CHEMICAL REACTIONS* (CHE-7721490 A03); 12 MONTHS $49,300

DANEN, WAYNE C; *ORGANIC REACTIONS INITIATED BY INTENSE, PULSED INFRARED LASER RADIATION* (CHE-7722045 A02); 12 MONTHS $33,000

DESMARTEAU, DARRYL D; *SYNTHETIC AND MECHANISTIC STUDIES IN FLUORINE CHEMISTRY* (CHE-7904077 A02); 12 MONTHS $33,400

KAY, KENNETH G; *THEORETICAL STUDIES OF INTRAMOLECULAR VIBRATIONAL ENERGY TRANSFER* (CHE-7910020 A01); 12 MONTHS $39,000

MCDONALD, RICHARD N; *CHEMISTRY OF HYPOVALENT RADICALS* (CHE-7911770 A01); 12 MONTHS $52,100

LAMBERT, JACK L; *NEW REAGENTS FOR TRACE ANALYSIS* (CHE-7915217 A01); $6,950

LAMBERT, JACK L; *NEW REAGENTS FOR TRACE ANALYSIS* (CHE-7915217 A03); 12 MONTHS $35,000

KLABUNDE, KENNETH J; *ORGANIC CHEMISTRY OF METAL VAPORS AND METAL SALT VAPORS* (CHE-7919597 A01); 12 MONTHS $39,500

SORENSEN, C M, *A LIGHT-SCATTERING INVESTIGATION OF SUPERCOOLED LIQUIDS AND THE LIQUID-SOLID PHASE TRANSITION* (CHE-7912084); 24 MONTHS $44,600

KLABUNDE, KENNETH J, *PURCHASE OF A MASS SPECTROMETER* (CHE-8004139); 12 MONTHS $49,000

UNIVERSITY OF KANSAS MAIN CAMPUS

HARMONY, MARLIN D, *MICROWAVE SPECTROSCOPIC STUDIES OF MOLECULAR STRUCTURE, CONFORMATION, AND DYNAMICS* (CHE-7701118 A02); 12 MONTHS $39,895

BURGSTAHLER, ALBERT W, *ALLYLIC CHIRALITY EFFECTS IN CONJUGATED DIENES* (CHE-7823856 A01); 12 MONTHS $25,000

KENTUCKY

UNIVERSITY OF KENTUCKY

GUTHRIE, ROBERT D, *ELECTRON TRANSFER REACTIONS OF CARBANIONS AND RELATED SYSTEMS* (CHE-7914419 A01); 12 MONTHS $36,000

UNIVERSITY OF LOUISVILLE

GIBSON, DOROTHY H, *CYCLIC ORGANIC PEROXIDES* (CHE-7908944); 12 MONTHS $52,700

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

NEWKOME, GEORGE R, *EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF ORGANIC REACTION RATES AND MECHANISMS* (CHE-7908543 A01); 12 MONTHS $29,200

GOOD, MARY L, *SELECTED IRON AND RUTHENIUM MOSSBAUER AND ELECTRON SPECTROSCOPY FOR CHEMICAL ANALYSIS (ESCA) STUDIES* (CHE-7512999 A01); 9 MONTHS $16,917

PRYOR, WILLIAM A, *FREE RADICAL REACTIONS IN SOLUTION* (CHE-7912114); 12 MONTHS $72,000

DAY, M C, *BINARY AND TERNARY SOLVENT INTERACTIONS IN MISCIBLE TWO LIQUID PHASE SYSTEMS* (CHE-8004472); 12 MONTHS $28,000

NEWKOME, GEORGE R, *CHEMISTRY OF BINUCLEAR COMPLEXES DERIVED FROM TWO-DIMENSIONAL MACROCYCLIC LIGANDS: STRUCTURAL ASPECTS AND CHARGE-SORPTION PROCESSES* (CHE-8013534); 12 MONTHS $62,200

TULANE UNIVERSITY

DARENSBOURG, MARCETTA Y, *PROTECTION AND OR ACTIVATION OF TRANSITION METAL HYDRIDES BY INTERACTING LEWIS ACIDS AND CATIONS* (CHE-7915504); 12 MONTHS $45,000

DARENSBOURG, DONALD J, *THE LABILITY OF METAL-CARBON AND CARBON-OXYGEN BONDS IN ORGANOMETALLIC COMPOUNDS* (CHE-8003115); 12 MONTHS $62,000

UNIVERSITY OF NEW ORLEANS

GRIFFIN, GARY W, *PHOTOCYCLOELIMINATION REACTIONS OF A VARIETY OF HETEROCYCLIC SYSTEMS* (CHE-7908615 A02); 12 MONTHS $42,000

MAINE

UNIVERSITY OF MAINE, ORONO

DUNLAP, ROBERT, *ACQUISITION OF A GAS CHROMATOGRAPH MASS SPECTROMETER SYSTEM* (CHE-8018534); 12 MONTHS $40,000

MARYLAND

JOHNS HOPKINS UNIVERSITY

DAGDIGIAN, PAUL J, *LASER FLUORESCENCE STUDIES OF MOLECULAR COLLISION DYNAMICS AND SPECTROSCOPY* (CHE-7722361 A02); 12 MONTHS $29,000

DAGDIGIAN, PAUL J, *INELASTIC AND REACTIVE COLLISIONS INVOLVING LIF MOLECULES: A COLLABORATIVE EXPERIMENTAL AND THEORETICAL STUDY* (CHE-7909729 A02); 12 MONTHS $34,000

YARKONY, DAVID R, *THE ELECTRONIC STRUCTURE OF THE ALKALINE EARTH OXIDES* (CHE-7612151 A01); 12 MONTHS $29,000

POSNER, GARY H, *ORGANIC SYNTHESIS USING OPTICALLY ACTIVE ALPHA, BETA-ETHYLENIC SULFOXIDES* (CHE-7913161); 12 MONTHS $46,503

DOERING, JOHN P, *HIGH RESOLUTION, LOW ENERGY ELECTRON IMPACT SPECTROSCOPY* (CHE-7908511); 12 MONTHS $56,200

NATIONAL BUREAU OF STANDARDS

HOUGEN, JON T, *CONFERENCE ON HIGH RESOLUTION INFRARED APPLICATIONS AND DEVELOPMENTS, JUNE 23-25, 1980* (CHE-8006464); 12 MONTHS $6,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

FREEMAN, DAVID H, *CHEMICAL SELECTIVITY OF POROUS AND ADSORPTIVE SOLIDS* (CHE-7711013 A02); 12 MONTHS $54,972

DORFMAN, J ROBERT, AND ZWANZIG, ROBERT, *RESEARCH IN STATISTICAL PHYSICS* (CHE-7716398 A02); 12 MONTHS $91,000

GRIM, SAMUEL O, *SYNTHESIS AND CHEMICAL STUDIES ON PHOSPHORUS CONTAINING ORGANOMETALLIC AND INORGANIC COMPOUNDS* (CHE-7908518 A02); 12 MONTHS $36,000

MAZZOCCHI, P H, *PHOTOCHEMICAL ADDITIONS OF ALKENES TO IMIDES* (CHE-7813009 A01); 12 MONTHS $34,000

COPLAN, M A, AND TOSSELL, JOHN A, *ELECTRONIC STRUCTURE AND MOMENTUM DISTRIBUTIONS FROM ELECTRON IMPACT IONIZATION* (CHE-7908490 A01); 12 MONTHS $90,000

STEWART, JAMES M, AND MUNN, ROBERT J, *THE DEVELOPMENT OF A GENERALIZED TRANSPORTABLE SOFTWARE PACKAGE FOR THE SOLUTION AND REFINEMENT OF MOLECULAR STRUCTURES BY SINGLE CRYSTAL DIFFRACTION TECHNIQUES* (CHE-7908001); 12 MONTHS $47,000

MARIANO, PATRICK S, *IMINIUM SALT PHOTOCHEMISTRY* (CHE-8005813); 12 MONTHS $67,200

DORFMAN, J ROBERT, AND ZWANZIG, ROBERT, *RESEARCH IN STATISTICAL PHYSICS* (CHE-8015976); 12 MONTHS $112,000

MASSACHUSETTS

BOSTON COLLEGE

LIN, JEONG-LON G, *THERMAL DIFFUSION STUDIES OF IONIC SOLUTIONS* (CHE-7917994 A01); 12 MONTHS $31,000

BOSTON UNIVERSITY

DILL, DAN, *CALCULATIONAL EXPLORATION OF CROSS SECTIONS FOR ELECTRON SCATTERING BY AND PHOTOIONIZATION OF COMPLEX MOLECULES AND CHEMISORBED SPECIES* (CHE-7909707 A01); 12 MONTHS $45,000

MILBURN, RONALD M, *TRANSITION METAL COMPLEXES OF PHOSPHATE AND SULFATE ESTERS* (CHE-7908509 A01); 12 MONTHS $40,000

HOFFMAN, MORTON Z, *PHOTO AND RADIATION CHEMISTRY OF COORDINATION COMPLEXES* (CHE-7914041); 12 MONTHS $55,000

BRANDEIS UNIVERSITY

GRUNWALD, ERNEST, *MOLECULAR KINETICS AND STRUCTURE IN PHYSICAL ORGANIC CHEMISTRY* (CHE-7910940 A04); 3 MONTHS $15,236

HENDRICKSON, JAMES B, *COMPUTERIZATION OF A NEW PROTOCOL FOR SYSTEMATIC SYNTHESIS DESIGN* (CHE-7711102 A02); 12 MONTHS $55,318

COHEN, SAUL G, *LIGHT INDUCED ELECTRON TRANSFER AND RADICAL FORMATION IN POLYHETEROATOM SYSTEMS* (CHE-7908431 A01); 12 MONTHS $45,000

ROSENBLUM, MYRON, *PREPARATION AND SYNTHETIC APPLICATION OF NEW TRANSITION METAL COMPLEXES* (CHE-7910963 A02); 12 MONTHS $54,229

EPSTEIN, IRVING R, AND KUSTIN, KENNETH, *OSCILLATING CHEMICAL REACTIONS* (CHE-7908911 A01); 12 MONTHS $52,200

KERMIN, PHILIP M, *SYNTHESIS AND SYNTHETIC METHODS IONIC CYCLOPHANES, PARALLEL AND PERPENDICULAR DIENES, UNSYMMETRICAL OLEFIN CLEAVAGE* (CHE-7910928 A01); 12 MONTHS $40,970

EIC LABORATORIES INC

KOCH, VICTOR R, *ELECTROORGANIC FLUORINATIONS: A DIRECT AND SELECTIVE METHODOLOGY* (CHE-7910532 A01); 12 MONTHS $[illegible],354

HARVARD UNIVERSITY

LIPSCOMB, WILLIAM N, *ELECTRONIC AND GEOMETRICAL STRUCTURES OF MOLECULES* (CHE-7719989 A02); 12 MONTHS $60,000

KISHI, YOSHITO, *SYNTHETIC STUDIES IN THE FIELD OF NATURAL PRODUCTS CHEMISTRY* (CHE-7908200 A02); 12 MONTHS $90,305

WENDER, PAUL A, *APPROACHES TO IMPROVED SYNTHESIS DESIGN: MECHANISTIC AND SYNTHETIC STUDIES ON NEW ANNELATION METHODS* (CHE-7912463 A01); 12 MONTHS $35,639

WESTHEIMER, FRANK H, *STUDIES IN SYNTHETIC ORGANIC CHEMISTRY* (CHE-7912090 A01); 12 MONTHS $60,123

WILSON, E, *MOLECULAR STRUCTURE AND MOLECULAR COLLISIONS OF EXCITED ELECTRONIC STATES OF MOLECULES* (CHE-7908965 A02); 12 MONTHS $,597,962

COREY, ELIAS J, *ORGANIC CHEMISTRY, MULTISTEP SYNTHESIS, NEW SYNTHETIC METHODOLOGY, EXPLORATORY CHEMISTRY* (CHE-7913987); 12 MONTHS $[illegible],000

KARPLUS, MARTIN, *PROBLEMS IN THEORETICAL CHEMISTRY: ELECTRONIC STRUCTURE AND DYNAMICS OF MOLECULES IN VACUUM AND IN SOLUTION* (CHE-7920447); 12 MONTHS $67,000

WESTHEIMER, FRANK H, *THE CHEMISTRY OF PHOSPHATE ESTERS AND RELATED COMPOUNDS* (CHE-7912904); 12 MONTHS $52,000

CIAPPENELLI, DONALD J, *PURCHASE OF AN X-RAY DIFFRACTOMETER* (CHE-8000670); 12 MONTHS $77,000

HOUK, RICHARD H, *PROBLEMS IN BIOLOGICALLY RELATED INORGANIC CHEMISTRY* (CHE-8000401); 12 MONTHS $125,139

CIAPPENELLI, DONALD J, *PURCHASE OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER* (CHE-8000401); 12 MONTHS $142,000

WILSON, E, *STUDIES IN HYDROGEN BONDING, MOLECULAR STRUCTURE AND ROTATIONAL RELAXATION* (CHE-8011956); 12 MONTHS $92,500

GORDON, ROY G, *INTERMOLECULAR FORCES AND MOLECULAR MOTION* (CHE-8011609); 12 MONTHS $62,000

COOPER, N JOHN, *THE TRANSITION METAL TO CARBON DOUBLE BOND SYNTHESIS OF ALKYLIDENE COMPLEXES* (CHE-8010160); 12 MONTHS $44,500

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

FIELD, ROBERT W, *SPECTROSCOPY LABORATORY TUNABLE LASER FACILITY* (CHE-7910179 A02); 12 MONTHS $60,000

GREENE, FREDERICK D, *BOND-BREAKING PROCESSES IN RETRO-CYCLOADDITION REACTIONS* (CHE-7910667 A1); 12 MONTHS $90,000

SEYFERTH, DIETMAR, *ORGANOMETALLIC SYNTHESIS AND REACTIONS* (CHE-7910667 A3); 12 MONTHS $64,918

GARLAND, CARL W, *ULTRASONIC MEASUREMENTS NEAR TRANSITION AND CRITICAL POINTS* (CHE-7910667 A1); 12 MONTHS $60,000

SILBEY, ROBERT J; *QUANTUM MECHANICAL STUDIES OF THE COUPLING BETWEEN ELECTRONIC AND VIBRATIONAL STATES (CHE-7850007 A32*)*; 12 MONTHS $38,000

KEMP, D S; *SYNTHESIS AND STUDY OF CYCLIC PEPTIDES CONTAINING BETA-TURNS STUDY OF MACROCYCLIC CAGE DERIVATIVES (CHE-7850007 A33)*; 12 MONTHS $62,500

WAUGH, J S; *NEW EXPERIMENTAL METHODS IN NMR (CHE-7850007 A34)*; 12 MONTHS $126,000

KINSEY, JAMES L; *MOLECULAR COLLISIONS (CHE-7850007 A35)*; 12 MONTHS $85,000

PRITCHARD, DAVID E; *STATE TO STATE DIFFERENTIAL CROSS SECTIONS (CHE-7902967 A01)*; 12 MONTHS $60,000

FIELD, ROBERT W; *ENERGY PARTITIONING AND FLOW IN METAL-OXIDANT FLAMES (CHE-7950007 A08)*; 12 MONTHS $57,000

FIELD, ROBERT W; *ENERGY PARTITIONING AND FLOW IN METAL-OXIDANT FLAMES (CHE-7850007 A09)*; $9,700

LORD, RICHARD C; *BIOPHYSICAL APPLICATIONS OF RAMAN SPECTROSCOPY (CHE-7850007 A10)*; 12 MONTHS $32,119

WRIGHTON, MARK S; *PRIMARY EXCITED STATE PROCESSES IN TRANSITION METAL ORGANOMETALLIC COMPLEXES (CHE-7950007 A11)*; 12 MONTHS $69,600

SCHROCK, RICHARD R; *MULTIPLE METAL-CARBON BONDS, METALLOCYCLES, AND CATALYTIC REACTIONS INVOLVING OLEFINS (CHE-7850007 A12)*; 12 MONTHS $135,300

RASTETTER, WILLIAM H; *NUCLEOPHILIC DISPLACEMENTS AT SULFUR. SYNTHESIS OF FUNGAL METABOLITES (CHE-7950007 A13)*; 12 MONTHS $58,929

OPPENHEIM, IRWIN; *TRANSPORT AND RELAXATION PROCESSES (CHE-7850007 A14)*; 12 MONTHS $89,000

STEINFELD, JEFFREY I, MCFEELY, F, AND HOLLAHAN, J R; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: LASERGENERATED RADICAL ETCHING OF SEMICONDUCTOR SURFACES (CHE-7950007 A15*)*; 24 MONTHS $28,500

MASAMUNE, SATORU; *CHEMISTRY OF THEORETICALLY SIGNIFICANT ORGANIC SPECIES (CHE-7950007 A16)*; 12 MONTHS $57,275

DANHEISER, RICK L; *ALLENE DERIVATIVES IN NATURAL PRODUCT SYNTHESIS (CHE-7950007 A17)*; 12 MONTHS $32,549

DEUTCH, JOHN M; *STATISTICAL MECHANICAL INVESTIGATIONS OF VARIOUS ASPECTS OF STRUCTURE AND RELAXATION IN POLYMER AND FLUID SYSTEMS (CHE-7950007 A18)*; 12 MONTHS $118,400

SHARPLESS, K; *OXIDATIONS OF HYDROCARBONS CATALYZED BY INORGANIC OXO AND PEROXO COMPOUNDS AND RELATED SPECIES (CHE-7950007 A19)*; 12 MONTHS $142,944

WHITESIDES, GEORGE M; *ORGANOMETALLIC CHEMISTRY AND CATALYSIS (CHE-7950007 A20)*; 12 MONTHS $184,377

STEINFELD, JEFFREY I; *COHERENT TRANSIENT AND DOUBLE RESONANCE SPECTROSCOPY IN THE INFRARED AND OPTICAL REGIONS (CHE-7950007 A21)*; 12 MONTHS $60,000

NORTHEASTERN UNIVERSITY

HALPERN, ARTHUR M; *PHOTOPHYSICS OF SATURATED AMINES (CHE-7727421 A03)*; 12 MONTHS $37,648

KAGER, BARRY L; *STUDIES IN LIQUID AND GAS CHROMATOGRAPHY (CHE-7918536)*; 12 MONTHS $83,465

UNIVERSITY OF MASSACHUSETTS, AMHERST

CARPINO, LOUIS A; *POLYMERIC SUPPORTS FOR MULTI-STEP ORGANIC SYNTHESIS (CHE-7714679 A03)*; 12 MONTHS $33,385

RAGLE, JOHN L; *DOUBLE RESONANCE NMR STUDIES OF ELECTRONIC STRUCTURE IN MATRIX-ISOLATED MOLECULES AND IN HYDROGEN BONDED SOLIDS (CHE-7721367 A02)*; 12 MONTHS $35,000

HOLMES, ROBERT R; *LIGAND EXCHANGE MECHANISMS FOR NONRIGID MOLECULES OF MAIN GROUP ELEMENTS (CHE-7910036 A01)*; 12 MONTHS $34,700

CARPINO, LOUIS A; *SYNTHETIC UTILITY OF LOW TEMPERATURE RETRO DIELS-ALDER REACTIONS (CHE-7928522)*; 12 MONTHS $25,900

LILLYA, C P; *EIGHTEENTH CONFERENCE ON REACTION MECHANISMS, JUNE 16-19, 1980, AMHERST, MASSACHUSETTS (CHE-8007310)*; 12 MONTHS $3,200

MICHIGAN

HOPE COLLEGE

DOYLE, MICHAEL P; *FORMATION AND REACTIONS OF DINITROGEN COMPOUNDS (CHE-7824086 A01)*; 12 MONTHS $40,200

MICHIGAN STATE UNIVERSITY

AVERILL, BRUCE A; *SYNTHETIC MODELS FOR THE PROSTHETIC GROUPS OF COPPER PROTEINS (CHE-7715990 A02)*; 12 MONTHS $30,000

RATHKE, MICHAEL W; *THE CHEMISTRY OF ESTER ENOLATES (CHE-7805637 A02)*; 12 MONTHS $42,715

CUKIER, ROBERT I; *NONEQUILIBRIUM STATISTICAL MECHANICS OF LIQUIDS AND CHEMICAL REACTIONS (CHE-7807849 A01)*; 18 MONTHS $21,000

CHANG, C K; *THE CHEMISTRY AND STRUCTURES OF STACKED MACROCYCLIC LIGANDS AND METAL COMPLEXES (CHE-7815285 A01)*; 12 MONTHS $36,500

WAGNER, PETER J; *KETONES AS PROBES OF PHOTOCHEMICAL PROCESSES IN SOLUTION (CHE-7910831 A01)*; 12 MONTHS $58,000

LEROI, GEORGE E; *SPECTROSCOPIC STUDIES OF MOLECULAR STRUCTURE, ENERGETICS, AND DYNAMICS (CHE-7921319)*; 12 MONTHS $107,000

CROUCH, STANLEY R; *FAST KINETIC STUDIES OF ANALYTICAL SYSTEMS (CHE-7926490)*; 12 MONTHS $59,752

PINNAVAIA, THOMAS J, AND MORTLAND, MAX M; *LAYERED SILICATE INTERCALATION CATALYSTS (CHE-8002413)*; 12 MONTHS $77,100

POPOV, ALEXANDER I; *SOLVATION AND COMPLEXATION REACTIONS IN SOLUTIONS (CHE-8010808)*; 16 MONTHS $81,000

SCHWENDEMAN, RICHARD H; *STUDIES OF MOLECULAR STRUCTURE AND ENERGY TRANSFER BY MICROWAVE AND INFRARED LASER SPECTROSCOPY (CHE-8017534)*; 12 MONTHS $75,000

OAKLAND UNIVERSITY

HARMON, KENNETH; *PURCHASE OF ELECTRON SPIN RESONANCE SPECTROMETER CONSOLE (CHE-8016515)*; 12 MONTHS $31,100

UNIVERSITY OF MICHIGAN

GROVES, JOHN T; *IRON-OXO AND IRON-PEROXO INTERMEDIATES IN OXIDATIVE CATALYSIS (CHE-7721849 A02)*; 12 MONTHS $42,003

HUPE, DONALD J; *THE EFFECTS OF SOLVATION ON STRUCTURE-REACTIVITY CORRELATIONS FOR PROTON TRANSFER AND NUCLEOPHILIC REACTIONS (CHE-7808723 A02)*; 12 MONTHS $37,200

SACKS, RICHARD D; *ELECTRICALLY VAPORIZED THIN METALLIC FILMS AS ATOMIZATION CELLS AND EXCITATION SOURCES FOR ANALYTICAL ATOMIC SPECTROSCOPY (CHE-7825542 A01*)*; 12 MONTHS $50,749

CURTIS, M DAVID; *SMALL - RING METALLACYCLES AND METAL-METAL MULTIPLE BONDS (CHE-7907748 A01)*; 12 MONTHS $40,500

MORRIS, MICHAEL D; *AC-COUPLED INVERSE RAMAN SPECTROSCOPY (CHE-7915185 A01)*; 12 MONTHS $64,000

PHILLIES, GEORGE D; *DIFFUSION OF MACROMOLECULES UNDER NON-CLASSICAL CONDITIONS (CHE-7920389*)*; 12 MONTHS $15,500

BARTELL, LAWRENCE S; *MOLECULAR STRUCTURE AND FORCE FIELDS: ELECTRON DIFFRACTION STUDIES OF GASEOUS MOLECULES (CHE-7926480)*; 12 MONTHS $103,010

RUDOLPH, RALPH W; *CLUSTER CHEMISTRY (CHE-7927146)*; 12 MONTHS $55,300

KUCZKOWSKI, ROBERT L; *CHEMICAL APPLICATIONS OF MICROWAVE SPECTROSCOPY (CHE-8005471)*; 12 MONTHS $71,800

WESTRUM, EDGAR F; *THERMODYNAMICS OF IONIC AND MOLECULAR CRYSTALLINE PHASES (CHE-8007977)*; 18 MONTHS $87,000

ASHE, ARTHUR J; *GROUP V HETEROAROMATIC COMPOUNDS (CHE-8013682)*; 12 MONTHS $42,200

WAYNE STATE UNIVERSITY

MC CLAIN, WILLIAM M; *NONLINEAR TRANSMISSION SPECTROSCOPY OF MOLECULAR GASES (CHE-7805681 A02)*; 12 MONTHS $42,000

BOECKMAN, ROBERT K; *STUDIES OF METHODOLOGY AND APPLICATIONS TO THE TOTAL SYNTHESIS OF MACROCYCLIC NATURAL PRODUCTS (CHE-7807522 A01)*; 7 MONTHS $26,711

LIM, EDWARD C; *THEORETICAL INVESTIGATION IN THE ROLE OF VIBRONIC INTERACTIONS IN ELECTRONIC RELAXATION PROCESSES (CHE-7808712 A02)*; 12 MONTHS $32,000

HASE, WILLIAM L; *COMPUTER SIMULATION OF MOLECULAR DYNAMICS (CHE-7808848 A02)*; 12 MONTHS $46,000

BRENNER, ALAN; *AN INFRARED SPECTROSCOPIC STUDY OF ADSORBED TRANSITION METAL COMPLEXES (CHE-8005400)*; 12 MONTHS $55,000

ENDICOTT, JOHN F; *THE PHOTOCHEMISTRY OF COORDINATION COMPLEXES (CHE-8005497)*; 12 MONTHS $83,200

BACH, ROBERT D; *EXPERIMENTAL AND THEORETICAL STUDIES OF CARBONYL MIGRATIONS AND OTHER REACTION MECHANISMS (CHE-8006520)*; 12 MONTHS $77,600

JOHNSON, CARL R; *SYNTHETIC CHEMISTRY BASED ON SULFOXIMINES AND THIOPHOSPHONATES (CHE-8009140)*; 12 MONTHS $75,864

GLICK, MILTON, AND LINTVEDT, RICHARD L; *SYNTHESIS, STRUCTURE, MAGNETISM AND REACTIVITY OF MULTI-NUCLEAR TRANSITION METAL COMPLEXES (CHE-8010809)*; 12 MONTHS $55,000

OLIVER, JOHN P; *ORGANOSILYLMETALLIC COMPOUNDS: STRUCTURAL, SPECTROSCOPIC AND CHEMICAL STUDIES INCLUDING THEIR POTENTIAL USE AS SILYLENE PRESURSORS (CHE-8016862)*; 12 MONTHS $60,100

MINNESOTA

UNIVERSITY OF MINNESOTA-INSTITUTE OF TECHNOLOGY

GASSMAN, PAUL G; *PURCHASE OF HIGH FIELD MULTINUCLEAR NUCLEAR MAGNETIC RESONANCE EQUIPMENT (CHE-7926027)*; 12 MONTHS $146,000

UNIVERSITY OF MINNESOTA

TRUHLAR, DONALD G; *SCATTERING THEORY AND CALCULATIONS FOR CHEMICAL REACTIONS AND ELECTRON IMPACT PROCESSES (CHE-7727415 A02)*; 12 MONTHS $50,000

DAVIS, H TED; *ELECTRON TRANSPORT IN NONPOLAR FLUID (CHE-7808663 A02)*; 12 MONTHS $41,300

CRAWFORD, BRYCE; *VIBRATIONAL INTENSITIES AND BAND SHAPES IN LIQUIDS (CHE-7809881 A02)*; 12 MONTHS $20,500

GASSMAN, PAUL G; *THE CHEMISTRY OF BENT BONDS (CHE-7810231 A51)*; 10 MONTHS $69,897

OVEREND, JOHN; *THE CONTRIBUTIONS OF FF NONBONDED INTERACTIONS TO VIBRATIONAL ANHARMONICITY IN SF6, CF4 AND RELATED MOLECULES (CHE-7810742 A01)*; 12 MONTHS $30,000

PIGNOLET, LOUIS H; *CATALYTIC THERMAL AND PHOTOCHEMICAL DECARBONYLATION REACTIONS AND THE REDOX PHOTOCHEMISTRY OF METAL-SULFUR COMPLEXES (CHE-7821840 A01)*; 12 MONTHS $43,000

GENTRY, WILLIAM R; *CHEMICAL DYNAMICS OF BIMOLECULAR REACTIVE COLLISIONS (CHE-7906917 A01)*; 12 MONTHS $48,000

MILLER, LARRY L; *ORGANIC ELECTROCHEMISTRY (CHE-7906941 A01)*; 12 MONTHS $55,000

GENTRY, WILLIAM R, AND GIESE, CLAYTON F; *QUANTUM DYNAMICS OF MOLECULAR INTERACTIONS (CHE-7908346 A01)*; 12 MONTHS $94,000

ELLIS, JOHN E; *THE SYNTHESIS AND CHEMISTRY OF ORGANOMETALLIC ANIONS (CHE-7912159 A01)*; 12 MONTHS $50,300

KREEVOY, MAURICE M; *THE EFFECT OF MEDIUM AND STRUCTURE ON PROTON AND HYDRIDE TRANSFER (CHE-7925990)*; 12 MONTHS $44,700

KOLTHOFF, IZAAK M; *APPLICATIONS OF CROWN ETHERS AND CRYPTANDS IN CHEMICAL ANALYSIS (CHE-8000243)*; 24 MONTHS $67,314

MEAD, C ALDEN, AND TRUHLAR, DONALD G; *THE MOLECULAR AHARONOV-BOHM EFFECT AND ITS ROLE IN QUANTUM CHEMISTRY (CHE-8008335)*; 12 MONTHS $50,000

MOSCOWITZ, ALBERT J; *MAGNETIC CIRCULAR DICHROISM OF FORBIDDEN TRANSITIONS IN ORGANIC MOLECULES (CHE-8009240)*; 12 MONTHS $78,404

UNIVERSITY OF MINNESOTA AT SAINT PAUL

DIXON, DAVID A; *DYNAMICS OF CHEMICAL REACTIONS (CHE-7905959 A01)*; 12 MONTHS $35,000

DAHLER, JOHN S; *THEORY OF HIGH ENERGY ION-ATOM AND ATOM-ATOM COLLISIONS (CHE-7914174)*; 12 MONTHS $41,074

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI

PARCHER, JON F; *APPLICATIONS OF FRONTAL CHROMATOGRAPHY TO MULTICOMPONENT SYSTEMS (CHE-7809918 A01)*; 12 MONTHS $43,291

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

SCHLEMPER, ELMER O; *PURCHASE OF X-RAY DIFFRACTOMETER (CHE-7820447)*; 12 MONTHS $70,000

UNIVERSITY OF MISSOURI, ROLLA

BERTRAND, GARY L; *DEVELOPMENT OF A GROUP CONTRIBUTION METHOD FOR PREDICTING SOLUBILITIES IN COMPLEX SYSTEMS (CHE-7921574)*; 12 MONTHS $44,900

UNIVERSITY OF MISSOURI, ST LOUIS

BLOCK, ERIC; *STUDIES IN ORGANOSULFUR CHEMISTRY. NEW SULFINE CHEMISTRY (CHE-8001490)*; 12 MONTHS $63,198

WASHINGTON UNIVERSITY

WAHL, ARTHUR C; *OXIDATION-REDUCTION REACTIONS (CHE-8003125)*; 12 MONTHS $60,000

MONTANA

MONTANA STATE UNIVERSITY

GRIMSRUD, ERIC P; *A DETAILED STUDY OF THE QUANTITATIVE RESPONSE OF THE ELECTRON CAPTURE DETECTOR (CHE-7824515 A01)*; 12 MONTHS $89,697

GRIMSRUD, ERIC P; *A DETAILED STUDY OF THE QUANTITATIVE RESPONSE OF THE ELECTRON CAPTURE DETECTOR (CHE-7824515 A02)*; $7,584

WERBELOW, LAWRENCE G; *PERTURBATION-RESPONSE CHARACTERISTICS OF NUCLEAR PARAMAGNETISM (CHE-8001839)*; 24 MONTHS $22,760

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

RIEKE, REUBEN D; *ELECTROCHEMISTRY OF ORGANOMETALLIC COMPLEXES AND HIGHLY CONDUCTING ORGANIC MATERIALS (CHE-7806661 A01)*; 12 MONTHS $61,000

STALEY, STUART W; *THE ROLE OF EXCITED STATES IN THE MAGNETIC AND CHEMICAL PROPERTIES OF ORGANIC MOLECULES (CHE-7812218 A02)*; 10 MONTHS $49,000

WILKINS, CHARLES L; *COMPUTER-ASSISTED CHEMICAL ANALYSIS (CHE-7910383 A01)*; 12 MONTHS $74,401

BURROW, PAUL D; *ELECTRON SCATTERING STUDIES OF TEMPORARY ANION FORMATION IN HYDROCARBONS (CHE-7916816)*; 12 MONTHS $60,000

GROSS, MICHAEL L; *SELECTION RULES FOR IONIC CYCLOADDITIONS, ISOMERIZATIONS AND DECOMPOSITIONS (CHE-8008008)*; 10 MONTHS $55,700

GEORGE, T A; *CHEMISTRY OF COORDINATED DINITROGEN (CHE-8011423)*; 12 MONTHS $45,300

NEVADA

UNIVERSITY OF NEVADA, RENO

LIGHTNER, DAVID A; *PHOTOCHEMISTRY OF BILIRUBIN, PORPHYRINS AND RELATED PYRROLES (CHE-7910133 A01)*; 12 MONTHS $60,000

SCOTT, LAWRENCE T; *UNDERSTANDING CYCLIC CONJUGATION (CHE-7910299 A01)*; 12 MONTHS $35,046

NEW HAMPSHIRE

DARTMOUTH COLLEGE

HUGHES, RUSSELL P; *ORGANOTRANSITION METAL COMPLEXES OF FOUR MEMBERED CARBOCYCLIC RINGS (CHE-7717877 A02)*; 12 MONTHS $30,900

SPENCER, THOMAS A; *AMINE CATALYSIS OF CARBONYL REACTIONS VIA IMINIUM ION FORMATION (CHE-7808724 A02)*; 12 MONTHS $49,500

LEMAL, DAVID M; *SYNTHESIS AND CHEMISTRY OF PERFLUORINATED ANNULENES AND THEIR RELATIVES (CHE-7924309)*; 12 MONTHS $75,200

SODERBERG, ROGER H; *PURCHASE OF A COMPUTER FACILITY (CHE-8000910)*; 12 MONTHS $102,000

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

SEITZ, W R; *CHEMILUMINESCENCE AND BIOLUMINESCENCE FROM IMMOBILIZED REACTANT SYSTEMS (CHE-7825192 A01)*; 12 MONTHS $41,045

ANDERSEN, KENNETH K; *MECHANISMS OF NUCLEOPHILIC SUBSTITUTION AT SULFUR (CHE-7906939)*; 12 MONTHS $31,400

OWENS, CHARLES W; *PURCHASE OF ULTRA-VIOLET VISIBLE SPECTROPHOTOMETER (CHE-7908199)*; 12 MONTHS $23,000

NEW JERSEY

PRINCETON UNIVERSITY

JONES, MAITLAND; *CARBENES, SILYLENES, AND OTHER REACTIVE INTERMEDIATES (CHE-7724635 A02)*; 12 MONTHS $53,900

SOOS, ZOLTAN G; *THEORETICAL MODELS FOR LOW-DIMENSIONAL EXCHANGE-COUPLED INORGANIC AND ORGANIC CRYSTALS (DMR-7727418 A02*)*; 12 MONTHS $20,100

SIGGIA, BARRY M; *MATHEMATICAL PHYSICS (MCS-7801885 A01*)*; 12 MONTHS $17,551

GELFAND, JACK J, RABITZ, HERSCHEL A, AND MILES, RICHARD B; *EXPERIMENTAL AND THEORETICAL STUDY OF RELAXATION FROM HIGHLY VIBRATIONALLY EXCITED HYDROGENIC MOLECULES (CHE-7804810 A02)*; 12 MONTHS $70,000

SCHWARTZ, JEFFREY; *TRANSITION METAL REAGENTS IN ORGANIC SYNTHESIS (CHE-7900996 A01)*; 12 MONTHS $91,650

SEMMELHACK, MARTIN F; *NEW METHODS IN ORGANIC SYNTHESIS USING TRANSITION METALS (CHE-7905561 A01)*; 12 MONTHS $60,503

CAKMAK, AHMET S, AND RABITZ, HERSCHEL A; *FINITE ELEMENT METHOD FOR BOUND STATE AND SCATTERING PROBLEMS (CHE-7908409 A01)*; 12 MONTHS $45,000

SPIRO, THOMAS G; *RESONANCE EFFECTS IN SPONTANEOUS AND COHERENT RAMAN SPECTROSCOPY (CHE-7909433 A01)*; 12 MONTHS $50,000

BERNASEK, STEVEN L; *STUDIES OF THE ENERGY STATES OF PRODUCTS OF HETEROGENEOUS REACTIONS ON WELL CHARACTERIZED METAL SURFACES (CHE-7909467 A01)*; 12 MONTHS $82,100

MC CLURE, DONALD S; *ELECTRONIC SPECTROSCOPY (CHE-7912427 A01)*; 12 MONTHS $72,931

TAYLOR, EDWARD C; *THALLIUM IN ORGANIC SYNTHESIS (CHE-7918676)*; 12 MONTHS $68,787

SPIRO, THOMAS G; *PURCHASE OF FOURIER TRANSFORM I R SPECTROMETER (CHE-8002463)*; 12 MONTHS $69,000

MISLOW, KURT; *THEORETICAL STEREOCHEMISTRY (CHE-8009670)*; 13 MONTHS $168,000

RUTGERS UNIVERSITY-BUSCH CAMPUS

MOSS, ROBERT A; *MECHANISTIC STUDIES IN CARBENE CHEMISTRY (CHE-7908602)*; 12 MONTHS $81,000

RUTGERS UNIVERSITY

LEBOWITZ, JOEL L; *THERMODYNAMIC AND DIELECTRIC PROPERTIES OF POLAR FLUIDS (CHE-7808730 A02)*; 12 MONTHS $47,500

ADAMS, WILLIAM H; *FORMAL AND COMPUTATIONAL STUDIES OF A NEW STARTING POINT FOR THEORIES OF ELECTRONIC STRUCTURE (CHE-7810176 A02)*; 12 MONTHS $34,000

DENNEY, DONALD B; *PREPARATION AND STUDIES OF THE CHEMISTRY OF HYPERVALENT MOLECULES (CHE-7812920 A01)*; 12 MONTHS $39,000

GOODMAN, LIONEL; *VIBRATIONAL-ELECTRONIC INTERACTIONS IN ONE- AND TWO-PHOTON SPECTRA (CHE-8003299)*; 12 MONTHS $99,795

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

WILKINS, RALPH G; *RAPID INORGANIC REACTIONS IN SOLUTION (CHE-7723721 A02)*; $18,000

WILKINS, RALPH G; *RAPID INORGANIC REACTIONS IN SOLUTION (CHE-7723721 A03)*; 12 MONTHS $39,000

UNIVERSITY OF NEW MEXICO

DAUB, GUIDO H; *PURCHASE OF FOURIER TRANSFORM INFRARED SPECTROMETER (CHE-8007979)*; 12 MONTHS $58,000

NEW YORK

CITY COLLEGE

LOMBARDI, JOHN R, AND BIRKE, RONALD L; *ENHANCED RAMAN EFFECT AT THE ELECTRODE SOLUTION INTERFACE (CHE-7911159 A01)*; 12 MONTHS $61,000

CLARKSON COLLEGE OF TECHNOLOGY

KERKER, MILTON, AND CHEW, HERMAN; *LIGHT SCATTERING EFFECTS FOR AEROSOLS AND OTHER PARTICLE SYSTEMS (CHE-7713102 A03)*; 12 MONTHS $45,000

KRATOHVIL, JOSIP P; *EQUILIBRIUM, HYDRODYNAMIC, AND KINETIC STUDIES OF AGGREGATION OF BILE SALTS (CHE-7724301 A02)*; 12 MONTHS $55,000

MEITES, LOUIS; *THERMOMETRIC TECHNIQUES FOR STUDYING CHEMICAL EQUILIBRIA AND CHEMICAL KINETICS (CHE-7727751 A03)*; 12 MONTHS $44,700

MEITES, LOUIS, AND ZUMAN, PETR; *COMPILATION, CRITICAL EVALUATION AND PUBLICATION OF POLAROGRAPHIC AND RELATED ELECTROCHEMICAL DATA (CHE-7815284 A01)*; 12 MONTHS $94,195

MEITES, LOUIS, AND ZUMAN, PETR; *COMPILATION, CRITICAL EVALUATION, AND PUBLICATION OF POLAROGRAPHIC AND RELATED ELECTROCHEMICAL DATA (CHE-7815284 A02)*; 12 MONTHS $100,806

MATIJEVIC, EGON; *CHEMICAL REACTIONS IN AEROSOLS (CHE-7830737 A01)*; 6 MONTHS $12,600

PETHICA, BRIAN A; *INTERMOLECULAR FORCES IN MONOLAYERS AT LIQUID (AQUEOUS) INTERFACES (CHE-7827566 A01)*; 12 MONTHS $30,000

MATIJEVIC, EGON; *INTERACTIONS OF COMPLEX SOLUTE SPECIES WITH CHARGED INTERFACES (CHE-8013684)*; 12 MONTHS $74,000

COLLEGE AT PLATTSBURGH

RHEINGOLD, ARNOLD L; *ORGANOARSENIC AND ANTIMONY HOMOATOMIC RINGS, CHAINS AND MACROMOLECULES (CHE-7911430 A01)*; 12 MONTHS $28,000

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

SARKO, ANATOLE; *CONFORMATIONAL ANALYSIS OF POLYSACCHARIDES (CHE-7727749 A02)*; 12 MONTHS $32,700

SCHUERCH, CONRAD; *CONTROL OF THE RATES AND STEREOSELECTIVITY OF GLYCOSIDEFORMING REACTIONS (CHE-7807141 A01)*; 12 MONTHS $29,400

SMID, JOHANNES; *MACROHETEROCYCLIC LIGANDS ON POLYMERS: SOLUTE BINDING AND CATALYSIS (CHE-7905890 A01*)*; 12 MONTHS $33,000

COLUMBIA UNIVERSITY

TURRO, NICHOLAS J; *PHOTOCHEMISTRY AND CHEMICAL DYNAMICS OF MOLECULES CAPABLE OF MASSIVE ENERGY STORAGE (CHE-7800692 A01)*; 12 MONTHS $204,000

BERNSTEIN, RICHARD B; *LASER MASS SPECTROMETRY: VIBRONIC/MASS SPECTROSCOPY VIA MULTIPLE PHOTON IONIZATION OF POLYATOMIC MOLECULES (CHE-7825187 A01*)*; 12 MONTHS $50,000

BERNSTEIN, RICHARD B; *MASTER GRANT FOR CHEMISTRY PROJECTS UNDER GRANT ADMINISTRATION AGREEMENT NO.8 (CHE-7850008)*; 49 MONTHS $1

BERNSTEIN, RICHARD B; *MOLECULAR BEAM KINETICS: LASER AUGMENTED STUDIES (CHE-7850008 A19)*; 12 MONTHS $179,462

KATZ, THOMAS J; *CATALYSIS OF ORGANIC REACTIONS BY METALS (CHE-7850008 A20)*; 12 MONTHS $47,000

FLYNN, GEORGE W; *LASER STUDIES OF ENERGY FLOW IN POLYATOMIC MOLECULES (CHE-7850008 A21)*; 12 MONTHS $65,450

STILL, W C; *ORGANOMETALLIC SYNTHETIC METHODS AND TOTAL SYNTHESIS OF MACROCYCLIC NATURAL PRODUCTS (CHE-7850008 A22)*; 12 MONTHS $39,000

STORK, GILBERT; *SYNTHETIC METHODS AND TOTAL SYNTHESIS IN ORGANIC CHEMISTRY (CHE-7850008 A23)*; 12 MONTHS $140,959

BERSOHN, RICHARD; *ENERGY DISTRIBUTION OF PHOTOFRAGMENTS (CHE-7909310)*; 12 MONTHS $45,000

BRESLOW, RONALD; *ORGANIC ELECTROCHEMISTRY AND CONJUGATION (CHE-7910846)*; 12 MONTHS $95,100

BRESLOW, RONALD; *PURCHASE OF A DEPARTMENTAL SUPERCONDUCTING NUCLEAR MAGNETIC RESONANCE SYSTEM (CHE-7916326)*; 12 MONTHS $150,000

BERNSTEIN, RICHARD B; *MASTER GRANT FOR CHEMISTRY PROJECTS UNDER GRANT ADMINISTRATION AGREEMENT NO.8 (CHE-7950008)*; 49 MONTHS $1

PECHUKAS, PHILIP; *PROBLEMS IN MOLECULAR COLLISION THEORY (CHE-7950008 A09)*; 12 MONTHS $51,468

BERNE, BRUCE J; *MOLECULAR DYNAMICS IN CONDENSED MEDIA (CHE-7950008 A10)*; 12 MONTHS $99,000

KLEMPERER, WALTER G; *SYNTHESIS, STRUCTURE AND REACTIVITY OF GROUPS 5A AND 6A POLYOXOANIONS (CHE-7950008 A11)*; 12 MONTHS $68,643

LIPPARD, STEPHEN J; *LIGRAND BRIDGED BIMETALLIC COMPLEXES AND HIGH COORDINATE METAL ISOCYANIDE CHEMISTRY (CHE-7950008 A12)*; 12 MONTHS $90,395

EISENTHAL, KENNETH B; *PICOSECOND LASER STUDIES OF EXCITED STATE PROCESSES (CHE-7950008 A13)*; 12 MONTHS $105,433

BRESLOW, RONALD; *SELECTIVE FUNCTIONALIZATIONS OF SYNTHETIC UTILITY (CHE-7950008 A14)*; 12 MONTHS $60,795

CORNELL UNIVERSITY

FREED, JACK H; *MOLECULAR RELAXATION BY ESR SPECTROSCOPY AND RELATED PHENOMENA (CHE-7726896 A02)*; 12 MONTHS $55,000

HOFFMANN, ROALD; *MOLECULAR ORBITAL THEORY OF ORGANIC AND INORGANIC MOLECULES AND THEIR REACTIONS (CHE-7828048 A01)*; 12 MONTHS $120,000

WIDOM, BENJAMIN; *THEORETICAL AND EXPERIMENTAL STUDIES OF PHASE EQUILIBRIUM IN FLUIDS (CHE-7909689 A01)*; 12 MONTHS $67,000

MCLAFFERTY, FRED W; *COMPUTER IDENTIFICATION OF UNKNOWN MASS SPECTRA (CHE-7910400*)*; 12 MONTHS $12,892

GRANT, EDWARD R; *TIME RESOLVED STUDIES OF UNIMOLECULAR DECOMPOSITION: DISSOCIATION DYNAMICS FOR ALCOHOLS, THIOLS AND AMINES (CHE-7920858)*; 12 MONTHS $45,000

GOLDSTEIN, MELVIN J; *STRUCTURE AND MECHANISM IN CYCLOBUTANE PYROLYSIS (CHE-7923217)*; 12 MONTHS $81,600

WIESENFELD, JOHN R; *DISSOCIATIVE AND COLLISIONAL BEHAVIOR IN METAL HALIDES (CHE-8004125)*; 12 MONTHS $87,310

CARPENTER, BARRY K; *THERMAL AND TRANSITION METAL-PROMOTED REACTIONS OF SMALL RING MOLECULES (CHE-8007986)*; 12 MONTHS $56,000

MORRISON, GEORGE H; *ION MICROSCOPY AND ION MICROPROBE ANALYSIS (CHE-8009321)*; 12 MONTHS $335,700

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

GOLDSTEIN, MELVIN J; *OLIGOCYCLIC EXPLORATIONS (CHE-7726482 A02)*; 12 MONTHS $61,222

GANEM, BRUCE; *A NEW CLASS OF OXIDANTS. CATALYTIC EPOXIDATIONS AND BIOMIMETIC OXIDATIONS (CHE-7905525 A01)*; 12 MONTHS $29,413

HUNTER COLLEGE

LAVALLEE, DAVID K; *THE EFFECT OF SITE SEPARATION ON ELECTRON TRANSFER REACTIONS (CHE-8006094)*; 12 MONTHS $31,600

MEDICAL FOUNDATION OF BUFFALO INC

HAUPTMAN, HERBERT A; *METHODS OF CRYSTAL AND MOLECULAR STRUCTURE DETERMINATION (CHE-7911282 A01)*; 12 MONTHS $55,000

DORSET, DOUGLAS L; *ELECTRON DIFFRACTION CRYSTAL STRUCTURE ANALYSIS OF ORGANIC MOLECULES (CHE-7916916)*; 12 MONTHS $55,000

NEW YORK UNIVERSITY

SCHUSTER, DAVID I; *PHOTOCHEMICAL REACTIVITY OF UNSATURATED KETONES (CHE-7819750 A01)*; 12 MONTHS $46,000

MOSKOWITZ, JULES W; *ACCURATE AND COMPACT CORRELATION FUNCTIONS FOR MANY ELECTRON ATOMIC AND MOLECULAR SYSTEMS (CHE-8010719)*; 12 MONTHS $40,000

PERCUS, JEROME K; *STUDIES ON NONUNIFORM FLUIDS (CHE-8011285)*; 12 MONTHS $41,000

RENSSELAER POLYTECHNIC INSTITUTE

POTTS, KEVIN T; *HETEROMACROCYCLES (CHE-7901704 A01)*; 12 MONTHS $31,786

SCHULTZ, ARTHUR G, AND STRONG, ROBERT L; *MECHANISM AND SCOPE OF ARYLOXYACETIC ACID-LIKE PHOTOREARRANGEMENTS (CHE-7923640)*; 12 MONTHS $51,000

FERRIS, JAMES P; *OXIDATIVE AND PHOTOCONDENSATION OF PEPTIDE AND NUCLEOTIDE BONDS USING HCN AND HCN OLIGOMERS (CHE-7924381)*; 12 MONTHS $37,569

ROCKEFELLER UNIVERSITY

MAUZERALL, DAVID C; *PHOTO-INDUCED ELECTRON TRANSFER IN SOLUTION AND IN ORDERED SYSTEMS (CHE-7725152 A03)*; 12 MONTHS $40,000

AGOSTA, WILLIAM C; *STRUCTURAL AND STEREOCHEMICAL EFFECTS IN KETONE PHOTOCHEMISTRY. STUDIES WITH OXYCARBENES (CHE-7801575 A02)*; 12 MONTHS $35,000

STATE UNIVERSITY AT ALBANY

KUIVILA, HENRY G; *MECHANISMS OF REACTIONS OF ORGANOTIN COMPOUNDS (CHE-7800754 A02)*; 12 MONTHS $35,000

FRISCH, HARRY L; *STATISTICAL MECHANICS AND TRANSPORT IN FLUIDS (CHE-7926287)*; 18 MONTHS $72,100

PRESTWICH, GLENN D; *ISOPRENOID BIOSYNTHESIS IN INSECTS (CHE-7950004 A15)*; 12 MONTHS $46,679

STATE UNIVERSITY AT BINGHAMTON

INNES, K KEITH; *MOLECULAR ELECTRONIC SPECTRA AND STRUCTURE (CHE-7809735 A02)*; 12 MONTHS $45,806

EISCH, JOHN J; *STEREOCHEMISTRY AND MECHANISMS OF ORGANOMETALLIC INSERTION AND REARRANGEMENT REACTIONS WITH UNSATURATED HYDROCARBONS (CHE-7918188)*; 12 MONTHS $44,500

STATE UNIVERSITY AT BUFFALO

LANSBURY, PETER T; *NOVEL STRATEGIES IN NATURAL PRODUCT SYNTHESIS (CHE-7720615 A02)*; 12 MONTHS $44,649

MCIVER, JAMES W; *THEORETICAL CALCULATIONS OF INFRARED AND RAMAN INTENSITIES (CHE-7901138 A01)*; 12 MONTHS $38,500

ATWOOD, JIM D; *CARBON MONOXIDE REDUCTION AND METAL CLUSTER COMPLEXES (CHE-7904982 A01)*; 12 MONTHS $33,900

COPPENS, PHILIP; *CHARGE DENSITIES IN SOLIDS BY X-RAY AND NEUTRON DIFFRACTION (CHE-7905897 A01)*; 12 MONTHS $82,000

OSTERYOUNG, ROBERT A, AND OSTERYOUNG, JANET; *ANALYTICAL PULSE VOLTAMMETRY (CHE-7917543 A01)*; 12 MONTHS $158,698

CHURCHILL, MELVYN R; *STRUCTURAL STUDIES IN METAL HYDRIDE COMPOUNDS (CHE-7924580)*; 12 MONTHS $30,000

STATE UNIVERSITY AT STONY BROOK

LE NOBLE, WILLIAM J; *REACTIONS IN SOLUTIONS UNDER PRESSURE (CHE-7850004 A19)*; 12 MONTHS $45,000

HANSON, DAVID M; *STARK SPECTROSCOPY OF MOLECULAR SOLIDS (CHE-7850004 A20)*; 12 MONTHS $35,000

FOWLER, FRANK W; *DIHYDROPYRIDINES: A STUDY OF THEIR CHEMISTRY AND APPLICATION TO PROBLEMS IN ORGANIC CHEMISTRY (CHE-7850004 A21)*; 12 MONTHS $36,875

KRANTZ, ALLEN; *MODES OF REACTIVITY OF ANTIAROMATIC MOLECULES (CHE-7850004 A22)*; 12 MONTHS $60,000

STELL, GEORGE; *STATISTICAL MECHANICS OF THE LIQUID STATE (CHE-7900818 A01*)*; 12 MONTHS $27,500

CHU, BENJAMIN; *LIGHT-SCATTERING SPECTROSCOPY OF MULTICOMPONENT FLUID AND POLYMER SYSTEMS (CHE-7950004 A07)*; 12 MONTHS $46,000

HELQUIST, PAUL; *ORGANOMETALLIC ALKYLIDENE TRANSFER REAGENTS (CHE-7950004 A08)*; 24 MONTHS $41,891

LAUHER, JOSEPH W; *NEW APPROACHES TO BIMETALLIC CLUSTERS AND CATALYSIS (CHE-7950004 A09)*; 12 MONTHS $49,670

FRIEDMAN, HAROLD L; *ION DISTRIBUTIONS IN SOLUTION (CHE-7950004 A10)*; 12 MONTHS $55,000

HAIM, ALBERT; *THERMAL AND PHOTOCHEMICAL REDOX REACTIONS OF TRANSITION METAL COMPLEXES (CHE-7950004 A12)*; 12 MONTHS $55,000

RAMIREZ, FAUSTO; *ORGANIC COMPOUNDS OF PHOSPHORUS (CHE-7950004 A13)*; 12 MONTHS $56,000

JOHNSON, PHILIP M; *DETERMINATION OF MOLECULAR EXCITED STATE PROPERTIES BY MULTIPHOTON IONIZATION SPECTROSCOPY (CHE-7950004 A14)*; 12 MONTHS $85,000

DALTON, LARRY R; *DEVELOPMENT OF SATURATION TRANSFER AND TIME RESOLVED TECHNIQUES AND THEIR APPLICATION TO THE HYDRODYNAMIC CHARACTERIZATION OF PROTEINS AND SUPRAMOLECULAR COMPLEXES (CHE-7950004 A16*)*; 12 MONTHS $34,000

STATE UNIVERSITY OF NEW YORK SYSTEM OFFICE

BONNER, FRANCIS T; *INORGANIC NITROGEN CHEMISTRY IN SOLUTION (CHE-7950004 A11)*; 18 MONTHS $70,000

SYRACUSE UNIVERSITY

ANASTASSIOU, A G; *SYNTHESIS AND STUDY OF HETEROANNULENES (CHE-7901643 A01)*; 12 MONTHS $52,920

ATKINSON, GEORGE H; *CHARACTERIZATION OF INTERMEDIATES IN CHEMICAL AND PHOTOCHEMICAL REACTIONS BY TIME-RESOLVED RAMAN SPECTROSCOPY (CHE-7903854 A01)*; 12 MONTHS $37,600

NAFIE, LAURENCE A; *VIBRATIONAL CIRCULAR DICHROISM SPECTROSCOPY (CHE-8005227*)*; 11 MONTHS $140,014

UNIVERSITY OF ROCHESTER

GEORGE, THOMAS F; *LASER-ASSISTED CHEMISTRY AND IONIC-COVALENT CURVE-CROSSING REACTIONS (CHE-7727826 A02)*; 12 MONTHS $40,000

SAUNDERS, W H; *ISOTOPE EFFECTS IN ELIMINATIONS AND OTHER PROTON TRANSFER REACTIONS (CHE-7920774)*; 12 MONTHS $56,000

BOECKMAN, ROBERT K; *METHODOLOGY AND APPLICATION TO THE TOTAL SYNTHESIS OF MACROCYCLIC NATURAL PRODUCTS (CHE-8005176)*; 7 MONTHS $20,456

EISENBERG, RICHARD; *HOMOGENEOUS CATALYSIS OF THE WATER GAS SHIFT REACTION. ITS APPLICATIONS, AND CARBON-HYDROGEN BOND ACTIVATION (CHE-8011974)*; 12 MONTHS $79,500

MUENTER, JOHN S; *STRUCTURE AND DYNAMICS OF LASER EXCITED AND WEAKLY BOUND SPECIES (CHE-8012723)*; 12 MONTHS $97,100

NORTH CAROLINA

DUKE UNIVERSITY

QUIN, LOUIS D; *SYNTHESIS OF SOME NEW AROMATIC SYSTEMS CONTAINING PHOSPHORUS (CHE-7717878 A02)*; 12 MONTHS $46,061

PORTER, NED A; *MECHANISMS FOR FORMATION AND DECOMPOSITION OF CYCLIC PEROXIDES (CHE-7726088 A02)*; 12 MONTHS $31,500

LOCHMULLER, CHARLES H; *STUDIES OF STRUCTURE AND SELECTIVITY IN GAS-AND HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY (CHE-7817087 A01)*; 12 MONTHS $39,250

CHESNUT, DONALD B; *PURCHASE OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-7908600)*; 12 MONTHS $95,000

QUIN, LOUIS D, AND WESTHEIMER, FRANK H; *INTERNATIONAL SYMPOSIUM ON THE ORGANIC AND INORGANIC CHEMISTRY OF PHOSPHORUS, DURHAM, N.C., ON MAY 24 - JUNE 12, 1981 (CHE-7908775)*; 24 MONTHS $18,000

CHESNUT, DONALD B; *PURCHASE OF A MULTINUCLEAR NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8005867)*; 12 MONTHS $59,000

ARNETT, EDWARD M; *ENERGETIC AND STEREOCHEMICAL STUDIES OF ALKYL TRANSFER AND ION AGGREGATION (CHE-8006302)*; 17 MONTHS $122,000

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

BUCK, RICHARD P; *IONIC TRANSPORT: INCLUDING KINETICS, ADSORPTION, FLUCTUATIONS AND EQUILIBRIA LIQUID/LIQUID INTERFACES (CHE-7720491 A03)*; 12 MONTHS $59,112

PARR, ROBERT G; *THEORETICAL INVESTIGATIONS OF THE ELECTRONIC STRUCTURE OF MOLECULES (CHE-7722951 A02)*; 12 MONTHS $97,726

JOHNSON, CHARLES S; *STUDIES OF MOLECULAR STRUCTURE AND CHEMICAL RATE PROCESSES BY MEANS OF MAGNETIC RESONANCE AND DYNAMIC LIGHT SCATTERING (CHE-7723564 A02)*; 12 MONTHS $82,500

BAER, TOMAS; *DISSOCIATION OF INTERNAL ENERGY SELECTED IONS (CHE-7728321 A02)*; 12 MONTHS $49,800

ISENHOUR, THOMAS L; *COMPUTER APPLICATIONS TO ANALYTICAL CHEMISTRY (CHE-7800612 A02*)*; 12 MONTHS $46,500

EVANS JR., SLAYTON A; *PHOSPHORANES IN ORGANIC SYNTHESIS AND REACTIONS OF THIOLACTONES (CHE-7805921 A02)*; 12 MONTHS $26,149

ELIEL, ERNEST L; *CONFORMATIONAL ANALYSIS IN HETEROCYCLIC SYSTEMS: PRINCIPLES AND APPLICATIONS (CHE-7808713 A01)*; 12 MONTHS $63,810

KROPP, PAUL J; *PHOTOCHEMISTRY OF ALKYL HALIDES (CHE-7812466 A02)*; 10 MONTHS $37,500

SORRELL, THOMAS N; *PREPARATION OF TETRAHEDRAL COMPLEXES OF IRON (CHE-7817324 A01)*; 12 MONTHS $30,000

WHITTEN, DAVID G; *CONTROL OF PHOTOCHEMICAL REACTIONS THROUGH THE USE OF ORGANIZED MEDIA (CHE-7823125 A01)*; 12 MONTHS $75,000

ELIEL, ERNEST L; *HIGHLY STEREOSELECTIVE ASYMMETRIC SYNTHESES (CHE-7828118 A01)*; 12 MONTHS $27,836

MURRAY, ROYCE W; *FUNDAMENTAL STUDIES OF ELECTROCHEMICAL PROCESSES, TECHNIQUES, INSTRUMENTATION: CHEMICALLY MODIFIED METAL AND METAL OXIDE ELECTRODES (CHE-7920114)*; 12 MONTHS $130,118

MEYER, THOMAS J; *THE RATIONAL DESIGN OF METAL ION REDOX CATALYSTS (CHE-8002433)*; 12 MONTHS $57,300

ISENHOUR, THOMAS L; *PURCHASE OF AN ELECTRON PARAMAGNETIC RESONANCE SPECTROMETER (CHE-8006078)*; 12 MONTHS $49,200

MEYER, THOMAS J; *PHOTOCHEMICAL AND ELECTRON TRANSFER REACTIONS OF METAL COMPLEXES (CHE-8008922)*; 12 MONTHS $72,700

HATFIELD, WILLIAM E; *SPIN-SPIN COUPLING IN MAGNETICALLY CONDENSED COMPOUNDS (CHE-8009685)*; 12 MONTHS $64,600

ISENHOUR, THOMAS L; *PURCHASE OF A DEPARTMENTAL COMPUTER SYSTEM WITH ACCESSORIES (CHE-8012729)*; 12 MONTHS $120,000

WAKE FOREST UNIVERSITY

WILLIAMS, GEORGE P; *PURCHASE OF A CONVERSION SYSTEM TO UPGRADE ELECTRON PARAMAGNETIC RESONANCE SPECTROMETER (CHE-8016901)*; 12 MONTHS $16,500

NORTH DAKOTA

NORTH DAKOTA STATE UNIVERSITY CENTRAL OFFICE

HILDERBRANDT, RICHARD L; *STRUCTURAL INVESTIGATIONS BY ELECTRON DIFFRACTION AND SPECTROSCOPIC TECHNIQUES (CHE-7908614 A01)*; 12 MONTHS $32,000

OHIO

BATTELLE MEMORIAL INSTITUTE

SHAVITT, ISAIAH; *UNITARY GROUP METHODS FOR THE ELECTRON CORRELATION PROBLEM (CHE-7825191 A01)*; 12 MONTHS $50,000

CASE WESTERN RESERVE UNIVERSITY

DUNBAR, ROBERT C; *OPTICAL STUDY OF GAS-PHASE IONS (CHE-7806604 A03)*; $8,600

DUNBAR, ROBERT C; *OPTICAL STUDY OF GAS-PHASE IONS (CHE-7806604 A04)*; 12 MONTHS $30,000

NORDLANDER, J E; *MECHANISMS OF CARBOCATION REACTIONS (CHE-7821790 A01)*; 12 MONTHS $34,400

SALOMON, ROBERT G; *HOMOGENEOUS CATALYSIS IN ORGANIC SYNTHESIS (CHE-7901653 A01)*; 12 MONTHS $32,075

FACKLER, JOHN P; *CHEMISTRY OF SULFUR AND YLIDE COORDINATION COMPOUNDS (CHE-8013161)*; 14 MONTHS $77,287

CHARLES F KETTERING FOUNDATION-CHARLES F KETTERING RESEARCH LABORATORY

CORBIN, JAMES L; *NEW COORDINATION CHEMISTRY OF MOLYBDENUM: APPLICATION TO BIOCHEMISTRY AND CATALYSIS (CHE-7926051)*; 12 MONTHS $53,483

OHIO STATE UNIVERSITY

KUWANA, THEODORE; *MEDIATED ELECTRON TRANSFERS AND DERIVATIZED ELECTRODE SURFACES (CHE-7681591 A03)*; $6,794

MAGNUS, PHILIP D; *APPLICATIONS OF ORGANOSILICON CHEMISTRY IN SYNTHESIS (CHE-7720735 A02)*; 12 MONTHS $31,300

BUSCH, DARYLE H; *TOTALLY SYNTHETIC HEME PROTEIN MODELS (CHE-7726514 A02)*; 12 MONTHS $63,000

LAUB, RICHARD J; *ANALYTICAL AND PHYSICO-CHEMICAL STUDIES BY GAS-LIQUID CHROMATOGRAPHY (CHE-7830477 A01)*; 12 MONTHS $40,709

MCCREERY, RICHARD L; *DIFFRACTIVE SPECTROELECTROCHEMISTRY (CHE-7828068 A01)*; 12 MONTHS $45,000

PAQUETTE, LEO A; *SYNTHESIS AND ISOMERIZATION REACTIONS OF NOVEL ALICYCLIC MOLECULES (CHE-7900333 A01)*; 12 MONTHS $79,624

PLATZ, MATTHEW S; *CHEMISTRY AND SPECTROSCOPY OF HIGH ENERGY INTERMEDIATES (CHE-7900896 A01)*; 12 MONTHS $28,600

NEWMAN, MELVIN S; *STERIC EFFECTS IN POLYCYCLIC AROMATIC HYDROCARBONS (CHE-7901836 A01)*; 12 MONTHS $28,900

MC CURDY, CLYDE W; *EXTENSION OF COMPLEX COORDINATE AND COMPLEX BASIS FUNCTION TECHNIQUES TO MOLECULAR SYSTEMS: RESONANCES AND PHOTOIONIZATION (CHE-7907787 A01)*; 12 MONTHS $40,000

MEEK, DEVON W; *PURCHASE OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-7910019)*; 12 MONTHS $145,809

CHRISTOPH, GARY G; *STRUCTURAL STUDIES OF SMALL LINEAR CLUSTER MODELS FOR METAL SURFACES AND CATALYSTS (CHE-7911164 A01)*; 12 MONTHS $32,000

WOJCICKI, ANDREW; *CHEMISTRY OF METAL-CARBON SIGMA BONDS (CHE-7911882 A01)*; 12 MONTHS $47,400

SHORE, SHELDON G; *SYNTHESES AND STUDIES OF SELECTED METAL CARBONYL AND METALLOBORANE CLUSTER SYSTEMS (CHE-7918148 A01)*; 12 MONTHS $66,387

PARSON, JOHN M; *MOLECULAR BEAM STUDIES OF REACTIONS OF LASER-EXCITED METAL ATOMS WITH GASES USING SPECTROSCOPIC DETECTION OF PRODUCTS (CHE-7921267)*; 12 MONTHS $40,800

HINE, JACK; *STRUCTURAL EFFECTS ON CHEMICAL REACTION RATES AND EQUILIBRIA (CHE-7926319)*; 12 MONTHS $53,000

FRAENKEL, GIDEON A; *DYNAMICS, SYNTHESIS AND STRUCTURE OF CARBANIONIC SUBSTANCES (CHE-8007439)*; 12 MONTHS $74,800

SWENTON, JOHN S; *THE UTILIZATION OF ELECTROCHEMICAL REACTIONS AND ELECTROCHEMICALLY DERIVED PRODUCTS IN ORGANIC SYNTHESIS (CHE-8009229)*; 12 MONTHS $43,089

OHIO UNIVERSITY

SULLIVAN, PAUL D; *ANTIOXIDANTS AND BENZO(A)PYRENE FREE RADICALS (CHE-7808895 A01)*; 12 MONTHS $35,000

UNIVERSITY OF CINCINNATI

WILSON, R MARSHAL; *SYNTHESIS OF PEROXIDES THROUGH OXYGEN TRAPPING OF BIRADICALS (CHE-7815741 A02)*; $9,800

AULT, BRUCE S; *INFRARED AND RAMAN MATRIX ISOLATION STUDIES OF HYPERVALENT AND ODD-VALENT CHEMICAL SPECIES (CHE-7827643 A01)*; 12 MONTHS $32,000

HEINEMAN, WILLIAM R; *VOLTAMMETRIC IMMUNOASSAY AND INTERMETALLIC EFFECTS IN ANODIC STRIPPING VOLTAMMETRY (CHE-7911872 A01)*; 12 MONTHS $40,000

DEUTSCH, EDWARD A; *EQUILIBRIUM AND DYNAMIC EFFECTS INDUCED BY COORDINATION OF SULFUR, SELENIUM OR TELLURIUM TO ROBUST METAL COMPLEXES (CHE-7926497)*; 12 ..ONTHS $74,000

WILSON, R MARSHAL; *THE SYNTHESIS AND CHEMISTRY OF NATURAL PRODUCT PEROXIDE DERIVATIVES: CHEMICAL APPLICATIONS OF THE LASER (CHE-8004235)*; 12 MONTHS $65,979

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

RAFF, LIONEL M; *INVESTIGATIONS OF GAS-PHASE COLLISION DYNAMICS (CHE-7825563 A01)*; 12 MONTHS $32,000

PURDIE, NEIL; *ANALYTICAL MEASUREMENTS USING OPTICAL DICHROISM (CHE-7909388)*; 12 MONTHS $27,984

MOTTOLA, HORACIO A; *USE OF TRANSIENT EFFECTS FOR CHEMICAL ANALYSIS (CHE-7923956)*; 12 MONTHS $51,181

DEVLIN, J PAUL; *SPECTROSCOPIC STUDIES OF THE STRUCTURES AND DYNAMICS OF IONIC SYSTEMS (CHE-7925567)*; 12 MONTHS $44,000

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

ZUCKERMAN, J J; *SYNTHESIS AND SPECTROSCOPIC PROPERTIES OF ORGANOTIN COMPOUNDS (CHE-7826584 A01)*; 12 MONTHS $26,600

CHRISTIAN, SHERRIL D, AND TUCKER, EDWIN E; *EFFECTS OF SOLVENTS ON PHYSICAL PROPERTIES OF MOLECULAR COMPLEXES (CHE-8001649)*; 12 MONTHS $41,945

OREGON

OREGON STATE UNIVERSITY

THOMAS, T DARRAH; *ELECTRON SPECTROSCOPY OF SMALL ATOMS AND MOLECULES (CHE-7721367 A03)*; 12 MONTHS $76,978

HEDBERG, KENNETH; *STRUCTURES, DYNAMICS, AND VIBRATIONAL POTENTIAL FUNCTIONS OF MOLECULES (CHE-7804258 A02)*; 12 MONTHS $81,100

PIEPMEIER, EDWARD H; *CHEMICALLY ENHANCED LASER MICROPROBE ANALYSIS OF REFRACTORY MATERIALS (CHE-7901759 A01)*; 12 MONTHS $43,600

NIBLER, JOSEPH W; *RAMAN AND FLUORESCENCE STUDIES OF TRANSIENT AND REACTIVE MOLECULES (CHE-7906381 A01)*; 15 MONTHS $76,500

INGLE, JAMES D; *LUMINESCENCE KINETICS-BASED MEASUREMENTS (CHE-7921293)*; 12 MONTHS $84,500

EVANS, GLENN T; *LIQUID STATE DYNAMICS OF NON-RIGID MOLECULES (CHE-8000015)*; 12 MONTHS $38,000

UNIVERSITY OF OREGON - EUGENE

KOENIG, THOMAS W; *PHOTOELECTRON SPECTRA OF ORGANIC INTERMEDIATES (CHE-7718752 A02)*; 12 MONTHS $57,500

BOEKELHEIDE, VIRGIL; *MOLECULES WITH NOVEL PI-ELECTRON SYSTEMS (CHE-7901783 A01)*; 12 MONTHS $103,316

HERRICK, DAVID R; *THEORETICAL STUDIES IN CHEMICAL PHYSICS (CHE-7909500 A01)*; 12 MONTHS $37,000

MOSELEY, JOHN T; *ION PHOTODISSOCIATION AND PHOTOFRAGMENT SPECTROSCOPY (CHE-7918074 A01)*; 12 MONTHS $60,971

KLOPFENSTEIN, CHARLES E; *PURCHASE OF NUCLEAR MAGNETIC RESONANCE SPECTROMETER MODIFICATIONS (CHE-7922072)*; 12 MONTHS $38,000

MAZO, ROBERT M; *THEORETICAL STUDIES IN CHEMICAL PHYSICS (CHE-8009555)*; 12 MONTHS $51,500

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

POPLE, JOHN A; *DEVELOPMENT AND APPLICATION OF MOLECULAR ORBITAL THEORY (CHE-7901061 A01)*; 12 MONTHS $119,626

STEWART, ROBERT F; *DERIVED PROPERTIES FROM X-RAY AND HIGH ENERGY SCATTERING (CHE-8016165)*; 16 MONTHS $85,500

DREXEL UNIVERSITY

SMITH, ALLAN L; *SPECTROSCOPY AND KINETICS OF TRANSIENT SPECIES CONTAINING RARE GAS ATOMS (CHE-7814262 A01)*; 12 MONTHS $36,500

DAVIS, FRANKLIN A; *CHEMISTRY OF SULFENIC ACIDS (CHE-7819890 A01)*; $7,575

HUTCHINS, ROBERT O; *MODIFIED CYANOBOROHYDRIDE REAGENTS FOR SELECTIVE AND ASYMMETRIC REDUCTIONS (CHE-7909167 A01)*; 12 MONTHS $32,500

PENNSYLVANIA STATE UNIVERSITY

GEOFFROY, GREGORY L; *PHOTOGENERATION OF REACTIVE ORGANOMETALLIC COMPLEXES (CHE-7728387 A02)*; 12 MONTHS $34,400

SKELL, PHILIP S; *THE CHEMISTRY OF GROUND STATES AND EXCITED STATES OF RADICALS (CHE-7810049 A02)*; 12 MONTHS $39,600

SKELL, PHILIP S; *PROPERTIES AND LOW TEMPERATURE REACTIONS OF REACTIVE ATOMIC SPECIES GENERATED AT HIGH TEMPERATURES (CHE-7816193 A01)*; 12 MONTHS $34,000

WEINREB, STEVEN M; *SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS (CHE-7819916 A02)*; 12 MONTHS $39,200

ANDERSON, JAMES B; *QUANTUM CHEMISTRY BY RANDOM WALK (CHE-7825287 A01)*; 12 MONTHS $26,000

POLO, SANTIAGO R, AND MC CUBBIN, THOMAS K; *HIGH RESOLUTION MOLECULAR SPECTROSCOPY (CHE-7906582 A01)*; 12 MONTHS $49,900

HORROCKS, WILLIAM D; *OPEN-SHELL IONS AS STRUCTURAL PROBES (CHE-7919581)*; 12 MONTHS $53,000

WINOGRAD, N; *ESCA/SIMS AND PARTICLE/SURFACE INTERACTIONS FOR PREPARATION AND ANALYSIS OF SURFACES (CHE-7919605 A01)*; 12 MONTHS $61,000

JACKMAN, LLOYD M; *NUCLEAR MAGNETIC RESONANCE STUDIES OF HYDROGEN BONDS AND IONIC AGGREGATES (CHE-8002426)*; 12 MONTHS $40,000

STEELE, WILLIAM A; *DYNAMICAL AND EQUILIBRIUM PROPERTIES OF DENSE MULTIPOLAR FLUIDS (CHE-8005364)*; 12 MONTHS $68,000

DIXON, JOSEPH A; *PURCHASE OF MINICOMPUTER FOR LARGE-SCALE CHEMICAL COMPUTATIONS (CHE-8012930)*; 12 MONTHS $135,000

TEMPLE UNIVERSITY

GONCALVES, ANTONIO M; *SPIN SELECTION RULES IN CHEMICAL REACTIONS (CHE-8009219)*; 12 MONTHS $69,008

UNIVERSITY OF PENNSYLVANIA

HAMEKA, HENDRIK F; *THEORY OF NONLINEAR OPTICAL SUSCEPTIBILITIES (CHE-7722638 A02)*; 12 MONTHS $35,000

HOCHSTRASSER, ROBIN M, AND SMITH, AMOS B; *LASER INDUCED ISOTOPICALLY SELECTIVE CHEMISTRY IN THE SOLID STATE (CHE-7808710 A02)*; 12 MONTHS $34,624

TOPP, M R; *FLUORESCENCE SPECTROSCOPY OF SUBPICOSECOND EXCITED STATES (CHE-7825312 A01)*; 12 MONTHS $52,354

WHITE, DAVID, AND GAMELLA, STANLEY J; *NMR STUDIES OF MOLECLUES AND MOLECULAR AGGREGATES IN INERT RARE GAS MATRICES (CHE-7825779 A01)*; 12 MONTHS $42,992

CAVA, MICHAEL P; *ORGANIC SULFUR, SELENIUM AND TELLURIUM CHEMISTRY (CHE-7925017)*; 12 MONTHS $79,765

HOCHSTRASSER, ROBIN M; *ULTRAFAST SPECTROSCOPY AND OTHER APPLICATIONS OF LASERS IN CHEMISTRY (CHE-8000016)*; 12 MONTHS $88,114

SNEDDON, LARRY G; *SYNTHETIC METAL CLUSTER CHEMISTRY (CHE-8006532)*; 12 MONTHS $32,000

ROBERTS, BRYAN W; *PURCHASE OF A HIGH RESOLUTION MASS SPECTROMETER (CHE-8008242)*; 12 MONTHS $145,000

UNIVERSITY OF PITTSBURGH

ARNETT, EDWARD M; *ENERGETIC AND STEREOCHEMICAL STUDIES OF ALKYL TRANSFER AND ION AGGREGATION (CHE-7622389 A02)*; 7 MONTHS $56,000

DOWD, PAUL; *THE CHEMICAL AND PHYSICAL PROPERTIES OF TRIMETHYLENEMETHANE (CHE-7725756 A02)*; 12 MONTHS $48,000

BUTERA, RICHARD A; *HEAT CAPACITY AND NEUTRON DIFFRACTION STUDIES OF RARE EARTHIRON INTERMETALLICS AND THEIR HYDRIDES (CHE-7727252 A02)*; 12 MONTHS $27,610

COETZEE, JOHANNES F; *APPLICATIONS OF ION-SELECTIVE ELECTRODES IN NONAQUEOUS SOLUTIONS (CHE-7727699 A02)*; 12 MONTHS $46,500

HERCULES, DAVID M; *ANALYTICAL CHEMISTRY OF SURFACES (CHE-7800876 A02)*; 12 MONTHS $85,837

JORDAN, KENNETH D; *ELECTRONIC STRUCTURE OF MOLECULAR ANIONS (CHE-7819700 A02)*; 12 MONTHS $39,000

COHEN, THEODORE; *NEW METHODS FOR SYNTHESIS AND MODIFICTION OF RINGS (CHE-7906651 A01)*; 12 MONTHS $40,171

WALLACE, W E, AND CRAIG, RAYMOND S; *STUDIES OF VERY HYDROGEN-RICH METALLIC SYSTEMS (CHE-7908914 A01)*; 12 MONTHS $50,000

SISKA, PETER E; *CROSSED MOLECULAR BEAM AND THEORETICAL STUDIES OF METASTABLE RARE GAS INTERACTIONS (CHE-7926400)*; 12 MONTHS $52,799

HOUK, KENDALL N; *EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF ORGANIC REACTION RATES AND MECHANISMS (CHE-8020192)*; 12 MONTHS $75,000

PUERTO RICO

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS

ADAM, WALDEMAR, AND YANY, FARIS E; *USE OF ' HIGH ENERGY ' MOLECULES FOR THE CHEMI ENERGIZATION OF ELECTRONIC EXCITATION (CHE-7813621 A02)*; 12 MONTHS $16,700

BLUM, LESSER; *STATISTICAL MECHANICS OF THE ELECTRIC DOUBLE LAYER (CHE-8001969*)*; 12 MONTHS $14,505

RHODE ISLAND

BROWN UNIVERSITY

COLE, ROBERT H, *DIELECTRIC RELAXATION BY TIME DOMAIN SPECTROSCOPY (CHE-7822209 A01)*; 12 MONTHS $30,676

LAWLER, RONALD G; *ION PRODUCTION FROM NEUTRAL RADICALS IN SOLUTION (CHE-7824171 A01)*; 12 MONTHS $59,000

KING, WILLIAM T; *MEASUREMENT OF ABSOLUTE INFRARED INTENSITIES IN EQUILIBRIUM MIXTURES (CHE-7910573 A01)*; 12 MONTHS $31,000

RISEN, WILLIAM M; *PURCHASE OF A 250 MHZ SUPERCONDUCTING NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8005474)*; 12 MONTHS $125,000

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER; *1980 CONFERENCE ON ORGANOMETALLIC CHEMISTRY; AUGUST 11-15, 1980; PROCTOR ACADEMY, ANDOVER, NEW HAMPSHIRE (CHE-8008852)*; 6 MONTHS $3,960

CRUICKSHANK, ALEXANDER; *GORDON RESEARCH CONFERENCE ON VIBRATIONAL SPECTROSCOPY; AUGUST 18-22, 1980; BREWSTER ACADEMY; WOLFEBORO, NEW HAMPSHIRE (CHE-8011307)*; 12 MONTHS $4,000

CRUICKSHANK, ALEXANDER; *1980 GORDON RESEARCH CONFERENCE ON ANALYTICAL CHEMISTRY NEW HAMPTON, NEW HAMPSHIRE; AUGUST 11-15, 1980 (CHE-8014953)*; 12 MONTHS $4,520

UNIVERSITY OF RHODE ISLAND

GONZALEZ, RICHARD D; *SIMULTANEOUS INFRARED AND KINETIC STUDIES OF SUPPORTED GROUP VIII METALS AND SUPPORTED BIMETALLIC CLUSTERS (CPE-7920155*)*; 12 MONTHS $8,300

SOUTH CAROLINA

CLEMSON UNIVERSITY

ABRAMOVITCH, RUDOLPH A; *CHEMISTRY OF NITRENES AND ISOELECTRONIC INTERMEDIATES (CHE-7804805 A03)*; 12 MONTHS $37,000

FURMAN UNIVERSITY

KNIGHT, LON B; *ESR RARE GAS MATRIX ISOLATION STUDIES OF METAL CONTAINING RADICALS (CHE-7910134 A01)*; 12 MONTHS $37,200

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

BLY, ROBERT S; *THE EFFECT OF ION PAIRING ON THE STRUCTURE AND REACTIVITY OF 2-BREXYL CATION GENERATED VIA-PI AND SIGMA-ROUTES (CHE-7812416 A01)*; 12 MONTHS $24,200

GOODE, SCOTT R; *A FUNDAMENTAL STUDY OF THE MICROWAVE-EXCITED PLASMA (CHE-7815436 A01)*; 12 MONTHS $31,800

DURIG, JAMES R; *SPECTROSCOPIC STUDIES AND POTENTIAL FUNCTIONS FOR LINEAR AND QUASI-LINEAR MOLECULES CONTAINING SILICON AND GERMANIUM (CHE-7920763)*; 12 MONTHS $57,000

ODOM, JEROME D; *NUCLEAR MAGNETIC RESONANCE STUDIES OF INORGANIC AND ORGANOMETALLIC COMPOUNDS OF GROUPS IIIA, VA AND VIA (CHE-8013694)*; 12 MONTHS $35,000

MARSHALL, JAMES A; *NEW SYNTHETIC APPROACHES TO CARBOCYCLIC COMPOUNDS (CHE-8020205)*; 9 MONTHS $49,746

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

WEHRY, EARL L; *LASER-EXCITED MATRIX-ISOLATION FLUOROMETRIC ANALYSIS OF POLYCYCLIC AROMATIC HYDROCARBONS (CHE-7712542 A02)*; 12 MONTHS $41,800

MAMANTOV, GLEB; *CHEMISTRY OF SELECTED TRANSITION METALS IN HALOALUMINATE MELTS (CHE-7721370 A02)*; 12 MONTHS $48,000

VANHOOK, W A; *ISOTOPE EFFECTS IN CONDENSED PHASES (CHE-7801571 A02)*; 12 MONTHS $38,000

CHAMBERS, JAMES Q; *NOVEL MULTISULFUR MATERIALS: ELECTROCHEMISTRY, ELECTRON SPIN RESONANCE, AND ELECTRONIC CONDUCTIVITY (CHE-7808709 A01)*; 12 MONTHS $34,600

MAMANTOV, GLEB; *PURCHASE OF RAMAN SPECTROMETER SYSTEM (CHE-8006315)*; 12 MONTHS $47,400

VANDERBILT UNIVERSITY

VAN WAZER, JOHN R; *CHEMISTRY OF THE MAIN-GROUP ELEMENTS (CHE-7604287 A03)*; 12 MONTHS $45,000

JOESTEN, MELVIN D, AND LENHERT, P GALEN; *EXPERIMENTAL INVESTIGATION OF THE DYNAMIC-STATIC JOHN-TELLER EFFECT (CHE-7709788 A02)*; 12 MONTHS $32,000

LUKEHART, CHARLES M; *REACTIONS OF COORDINATED MOLECULES (CHE-7907557 A01)*; 12 MONTHS $33,000

BANNA, M SALIM; *X-RAY PHOTOELECTRON AND AUGER ELECTRON SPECTROSCOPY OF ATOMS (CHE-7918390)*; 12 MONTHS $46,000

TEXAS

RICE UNIVERSITY

WILSON, LON J; *DYNAMICS OF INTERSYSTEM CROSSING PROCESSES IN SOLUTION FOR SYNTHETIC AND NATURALLY-OCCURRING SPIN-EQUILIBRIUM METAL COMPLEXES (CHE-7714594 A02)*; 12 MONTHS $28,000

GLASS, GRAHAM P; *GASEOUS REACTIONS OF VIBRATIONALLY EXCITED HYDROXYL-RADICALS (CHE-7722416 A01)*; 12 MONTHS $35,000

MARGRAVE, JOHN L; *PHYSICAL CHEMISTRY OF SELECTED HIGH TEMPERATURE SYSTEMS (CHE-7724348 A02)*; 12 MONTHS $68,000

LEWIS, EDWARD S; *SELECTIVITY AND REACTIVITY IN SUBSTITUTION REACTIONS (CHE-7825913 A01)*; 12 MONTHS $36,500

CURL, ROBERT F, AND TITTEL, FRANK K; *HIGH RESOLUTION LASER SPECTROSCOPY (CHE-7826572 A01)*; 12 MONTHS $70,000

WENKERT, ERNEST; *PURCHASE OF A MULTINUCLEAR FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SYSTEM (CHE-7908572)*; 12 MONTHS $65,000

CURL, ROBERT F; *SPECTROSCOPIC INVESTIGATIONS OF MOLECULAR STRUCTURE (CHE-7911804 A01)*; 12 MONTHS $42,000

PARRY, RONALD J; *BIOSYNTHESIS AND METABOLISM OF SULFUR COMPOUNDS (CHE-8004112)*; 12 MONTHS $54,054

SMALLEY, RICHARD E; *PHOTOCHEMICAL STUDIES WITH SUPERSONIC MOLECULAR BEAMS (CHE-8004207)*; 12 MONTHS $124,145

BROOKS, PHILIP R, AND CURL, ROBERT F; *SPECTROSCOPY AND DYNAMICS OF REACTION COMPLEXES (CHE-8007651)*; 12 MONTHS $146,225

BERRY, MICHAEL J; *NATURE AND DYNAMICS OF HIGHLY VIBRATIONALLY EXCITED POLYATOMIC MOLECULES (CHE-8008330)*; 12 MONTHS $170,000

ENGEL, PAUL S; *ORGANIC FREE RADICAL AND EXCITED STATE CHEMISTRY (CHE-8013160)*; 12 MONTHS $130,700

TEXAS A & M UNIVERSITY

COTTON, FRANK A; *RESEARCH IN INORGANIC AND ORGANOMETALLIC CHEMISTRY (CHE-7700448 A02)*; 12 MONTHS $144,000

FENDLER, JANOS H; *INTERACTIONS AND REACTIONS IN REVERSED MICELLES, SURFACTANT VESICLES, AND LIPOSOMES (CHE-7806608 A02)*; 12 MONTHS $52,500

LUNSFORD, JACK H; *GAS-SOLID INTERACTIONS AT SEMICONDUCTOR SURFACES (CHE-7809811 A02)*; 12 MONTHS $42,100

LAANE, JAAN; *CONFORMATIONAL DYNAMICS OF CYCLIC AND BICYCLIC MOLECULES (CHE-7826027 A01)*; 12 MONTHS $50,000

LAANE, JAAN; *CONFORMATIONAL DYNAMICS OF CYCLIC AND BICYCLIC MOLECULES (CHE-7826027 A02)*; $7,400

MACFARLANE, RONALD D; *PLASMA DESORPTION MASS SPECTROMETRY OF NON-VOLATILE MOLECULES (CHE-7904863 A01)*; 12 MONTHS $65,000

HALL, MICHAEL B; *THEORETICAL STUDIES ON THE ELECTRONIC AND MOLECULAR STRUCTURE OF INORGANIC AND ORGANOMETALLIC SYSTEMS (CHE-7920993)*; 12 MONTHS $30,000

BASTIAANS, GLENN J; *STUDY OF THE VAPOR PHASE REACTIONS IMPORTANT TO ANALYTICAL ATOMIC SPECTROMETRY (CHE-7921584)*; 12 MONTHS $47,082

BEVAN, J W; *DYNAMICAL PROPERTIES OF HYDROGEN-BONDED SYSTEMS (CHE-7923237)*; 12 MONTHS $67,000

SCHWEIKERT, EMILE A; *ANALYTICAL STUDIES WITH HIGH ENERGY ION BEAMS (CHE-7927157)*; 12 MONTHS $50,000

GINGERICH, KARL A; *MASS SPECTROMETRIC AND MATRIX ISOLATION SPECTROSCOPIC INVESTIGATION OF HIGH TEMPERATURE SYSTEMS (CHE-8007549)*; 12 MONTHS $73,000

MARTELL, ARTHUR E; *PURCHASE OF AN INFRARED SPECTROPHOTOMETER WITH DATA SYSTEM (CHE-8015358)*; 12 MONTHS $33,200

TEXAS CHRISTIAN UNIVERSITY

BARTLETT, PAUL D; *MECHANISMS OF ORGANIC CYCLOADDITION REACTIONS IN SOLUTION (CHE-7806639 A02)*; 12 MONTHS $54,000

TEXAS TECH UNIVERSITY

ROBINSON, G W; *PICOSECOND SPECTROSCOPY AND PHOTOCHEMICAL PATHWAYS (CHE-7721913 A02)*; 12 MONTHS $56,000

SHINE, HENRY J; *CATION RADICALS IN ORGANIC REACTIONS, AND HYDRAZOAROMATIC CHEMISTRY (CHE-7800813 A02)*; 12 MONTHS $60,000

KICE, JOHN L; *MECHANISMS OF REACTIONS OF ORGANOSELENIUM COMPOUNDS (CHE-7918877)*; 12 MONTHS $31,600

UNIV OF TEXAS AT AUSTIN

DEWAR, MICHAEL J; *EXTENSION OF MNDO TO TRANSITION METALS (CHE-7803213 A02)*; 12 MONTHS $46,400

WYATT, ROBERT E; *QUANTUM THEORY OF ENERGY TRANSFER IN CHEMICAL REACTIONS (CHE-7808703 A02)*; 12 MONTHS $46,000

WOODRUFF, WILLIAM H; *REACTION DYNAMICS OF BIOMOLECULES USING TIME-RESOLVED RESONANCE RAMAN SPECTROSCOPY AND RELATED LASER TECHNIQUES (CHE-7809338 A02)*; 12 MONTHS $41,600

GARDINER, WILLIAM C; *HOMOGENEOUS ISOTOPE EXCHANGE REACTION BETWEEN HYDROGEN AND DEUTERIUM (CHE-7809720 A03)*; 12 MONTHS $34,600

KYBA, EVAN P; *POLYPHOSPHINO MACROCYCLIC LIGANDS. SELECTIVE COMPLEXATION OF TRANSITION METALS AND CATALYSIS (CHE-7811543 A02)*; 12 MONTHS $35,000

HOLCOMBE, JAMES A; *GAS PHASE INTERACTIONS ABOVE HEATED GRAPHITE ATOMIZERS (CHE-7815438 A02)*; 12 MONTHS $31,600

BARD, ALLEN J; *MECHANISMS OF ELECTRODE REACTIONS (CHE-7903729 A01)*; 12 MONTHS $73,650

LAGOW, RICHARD J; *POLYLITHIUM ORGANIC COMPOUNDS: A RESEARCH AREA OF EMERGING SIGNIFICANCE (CHE-7909214 A01)*; 12 MONTHS $49,800

COWLEY, ALAN H; *THE SYNTHESIS, CHARACTERIZATION, AND REACTIONS OF MAIN GROUP CATIONS, RADICALS, AND MOLECULES WITH UNUSUAL COORDINATION NUMBERS (CHE-7910155 A02)*; 12 MONTHS $113,948

FOX, MARYE A; *MECHANISMS OF PHOTOREACTIONS OF CARBANIONS (CHE-7915762)*; 12 MONTHS $36,000

MCCORMICK, WILLIAM D, TURNER, JACK S, AND SWINNEY, HARRY L; *AN EXPERIMENTAL AND THEORETICAL INVESTIGATION OF THE BELOUSOV-ZHABOTINSKII REACTION (CHE-7923627)*; 12 MONTHS $44,000

BARD, ALLEN J; *PHOTOELECTROCHEMISTRY AND HETEROGENEOUS PHOTOPROCESSES AT SEMICONDUCTORS (CHE-8000682)*; 12 MONTHS $70,999

WHITE, JOHN M; *CHEMISORPTION AND CATALYSIS ON WELL CHARACTERIZED METAL SURFACES (CHE-8005107)*; 12 MONTHS $97,000

PETTIT, ROWLAND; *TWO ASPECTS OF ORGANOMETALLIC CHEMISTRY: HOMOGENEOUS CATALYSIS AND NOVEL ORGANOMETALLIC STRUCTURES (CHE-8006107)*; 12 MONTHS $94,978

FINK, MANFRED; *EXPERIMENTAL DETERMINATION OF MOLECULAR CHARGE DENSITIES BY ELECTRON DIFFRACTION (CHE-8007940)*; 12 MONTHS $53,000

WADE, WILLIAM H; *PURCHASE OF SURFACE ANALYSIS INSTRUMENTATION (CHE-8008009)*; 12 MONTHS $125,000

LAGOWSKI, JOSEPH J; *THE CHEMISTRY OF MONATOMIC TRANSITION METAL ANIONS IN SOLUTION (CHE-8009214)*; 12 MONTHS $61,400

UNIV OF TEXAS AT DALLAS

CALDWELL, RICHARD A; *STUDIES OF TRANSIENT TRIPLET BIRADICALS AND BIRADICALOID GEOMETRIES (CHE-7915228)*; 12 MONTHS $40,000

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

GREEN, SHELDON, AND KOURI, DONALD J; *THEORETICAL AND COMPUTATIONAL STUDIES OF PRESSURE BROADENING (CHE-7722911 A02)*; 12 MONTHS $33,000

RABALAIS, J WAYNE; *DEVELOPMENT OF SECONDARY ION MASS SPECTROMETRY (SIMS) FOR ANALYSIS OF CHEMICAL STRUCTURES AND BONDING (CHE-7915177)*; 12 MONTHS $50,000

KOURI, DONALD J; *FORMAL AND COMPUTATIONAL STUDIES IN THE QUANTUM THEORY OF MOLECULAR DYNAMICS (CHE-7919098)*; 12 MONTHS $40,000

KADISH, KARL M; *REDOX REACTIVITY OF METALLOPORPHYRINS (CHE-7921536)*; 12 MONTHS $69,894

UTAH

BRIGHAM YOUNG UNIVERSITY

IZATT, REED M; *SELECTIVE CATION COMPLEXING BY MULTIDENTATE MACROCYCLIC COMPOUNDS (CHE-8000059)*; 12 MONTHS $56,600

UNIVERSITY OF UTAH

GUILLORY, WILLIAM A; *SPECTROSCOPIC APPLICATIONS OF LASERS IN CHEMISTRY (CHE-7709175 A03)*; 12 MONTHS $63,800

JANATA, JIRI; *INSULATED GATE FIELD EFFECT TRANSISTOR AS POLARIZED ELECTRODE (CHE-7800637 A02)*; 12 MONTHS $47,255

STANG, PETER J; *UNSATURATED REACTIVE INTERMEDIATES (CHE-7801596 A02)*; 12 MONTHS $35,900

MICHL, JOSEF; *PREPARATION AND PROPERTIES OF BIRADICAL-LIKE SPECIES (CHE-7827094 A01)*; 12 MONTHS $89,000

SIMONS, JOHN P; *SOLVATED ANIONS (CHE-7906645 A01)*; 12 MONTHS $38,441

HARRIS, JOEL M; *LASER-INDUCED CALORIMETRY FOR TRACE ANALYSIS IN CONDENSED MEDIA (CHE-7913177 A01)*; 12 MONTHS $68,000

ALLRED, EVAN L; *AZO AND CARBOCYCLIC COMPOUNDS, CARBON NMR SPECTROSCOPY, AND REACTION MECHANISMS (CHE-7913731 A01)*; 12 MONTHS $55,000

GIDDINGS, J C; *SEPARATION OF COMPLEX MATERIALS BY FIELD-FLOW FRACTIONATION (FFF) (CHE-7919879)*; 12 MONTHS $118,320

PARRY, ROBERT W; *DICOORDINATE CATIONS OF PHOSPHORUS-SYNTHESIS CHARACTERIZATION, CHEMISTRY (CHE-7920113)*; 12 MONTHS $64,800

KECK, GARY E; *STUDIES ON THE APPLICATION OF ACYL-NITROSO COMPOUNDS TO C-N BOND FORMATION IN ORGANIC SYNTHESIS (CHE-7922026)*; 12 MONTHS $34,094

BENTRUDE, WESLEY G; *FREE-RADICAL AND PHOTOCHEMICAL REACTIONS OF ORGANOPHOSPHORUS SYSTEMS (CHE-7925056)*; 12 MONTHS $52,100

WALLING, CHEVES T; *ORGANIC REACTION MECHANISMS INVOLVING FREE RADICAL INTERMEDIATES (CHE-7926241)*; 12 MONTHS $75,000

GRANT, DAVID M, AND MICHL, JOSEF; *NMR OF ORGANIC SOLIDS AT CRYOGENIC TEMPERATURES (CHE-8000256)*; 12 MONTHS $85,000

BRECKENRIDGE, WILLIAM H; *STATE-TO-STATE CHEMISTRY AND ENERGY-TRANSFER USING THE LASER PUMP-AND-PROBE TECHNIQUE (CHE-8007033)*; 12 MONTHS $104,000

VERMONT

UNIVERSITY OF VERMONT

FLANAGAN, TED B; *THERMODYNAMICS OF ABSORPTION AND CHEMISORPTION OF HYDROGEN BY INTERMETALLIC COMPOUNDS (CHE-7724114 A02)*; 12 MONTHS $42,200

BUSHWELLER, C HACKETT; *INTRAMOLECULAR STEREODYNAMICS (CHE-7926243)*; 12 MONTHS $32,000

BUSHWELLER, C HACKETT; *INTRAMOLECULAR STEREODYNAMICS (CHE-7926243 A01)*; 11 MONTHS $8,900

GEIGER, WILLIAM E; *ELECTROCHEMICAL STUDIES OF STRUCTURAL CONSEQUENCES OF ORGANOMETALLIC ELECTRON-TRANSFER REACTIONS (CHE-8004242)*; 12 MONTHS $102,800

VIRGINIA

COLLEGE OF WILLIAM AND MARY

DELOS, JOHN B; *THEORETICAL STUDIES OF CHEMICAL REACTIONS INVOLVING EXCITED ELECTRONIC STATES (CHE-7801595 A02)*; 12 MONTHS $20,000

UNIVERSITY OF VIRGINIA

SCHATZ, PAUL N; *SPECTROSCOPY IN MAGNETIC FIELDS (CHE-7708311 A03)*; 12 MONTHS $83,886

GRIMES, RUSSELL N; *CRYSTALLOGRAPHIC STUDIES OF METALLOBORON AND HETEROBORON CAGE AND CLUSTER COMPOUNDS (CHE-7909948 A01)*; 12 MONTHS $36,147

ANDREWS, LESTER S; *MATRIX SPECTROSCOPIC STUDIES OF MOLECULAR IONS AND CHEMICAL INTERMEDIATES (CHE-7910966 A01)*; $6,200

RICHARDSON, FREDERICK S; *SPECTROSCOPIC PROBES OF MOLECULAR STEREOCHEMISTRY AND ELECTRONIC STRUCTURE (CHE-8004209)*; 12 MONTHS $100,300

HARRISON, WILLARD W; *PURCHASE OF HIGH FIELD SUPERCONDUCTING NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8007925)*; 12 MONTHS $132,000

WASHINGTON

BOEING ENGINEERING AND CONSTRUCTION

LYTLE, FARREL W, AND SANDSTROM, DONALD R; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: EXAFS INVESTIGATION OF SUPPORT EFFECTS, CHEMISORPTION AND SURFACE DISORDER IN CATALYSIS (CHE-7918084*)*; 12 MONTHS $27,060

PACIFIC LUTHERAN UNIVERSITY

TANG, KWONG-TIN; *QUANTUM THEORY OF REACTIVE, DISSOCIATIVE AND INELASTIC MOLECULAR SCATTERING (CHE-7809808 A02)*; 12 MONTHS $42,386

UNIVERSITY OF WASHINGTON

BORDEN, WESTON T; *SYNTHESIS AND STUDY OF SOME THEORETICALLY INTERESTING MOLECULES (CHE-7900949 A01*)*; 12 MONTHS $68,180

DAVIDSON, ERNEST R; *QUANTUM THEORY OF MOLECULES (CHE-7923775)*; 12 MONTHS $65,000

RABINOVITCH, B S; *KINETIC STUDIES OF FUNDAMENTAL PROCESSES IN UNIMOLECULAR REACTIONS (CHE-7926288)*; 12 MONTHS $72,000

KWIRAM, ALVIN L; *ELUCIDATION OF STRUCTURE AND CONFORMATION OF RING SYSTEMS IN THE SOLID STATE BY EDNMR (CHE-8011428)*; 12 MONTHS $65,000

WASHINGTON STATE UNIVERSITY

HILL, HERBERT H; *FLAME IONIZATION DETECTION OF METALS FOR CHEMICAL ANALYSIS BY GAS CHROMATOGRAPHY (CHE-7725743 A02)*; 12 MONTHS $40,100

HUNT, JOHN P, ROUNDHILL, D M, AND DODGEN, HAROLD W; *HIGH PRESSURE NMR STUDIES ON PORPHYRIN AND ORGANOMETALLIC COMPOUNDS (CHE-7915792)*; 12 MONTHS $59,867

COOKE JR., MANNING P; *NEW APPROACHES TO CONJUGATE ADDITION REACTIONS (CHE-7920989)*; 12 MONTHS $26,519

WISCONSIN

MARQUETTE UNIVERSITY

REGEN, STEVEN L; *CHEMICALLY BONDED REAGENTS (CHE-7728366 A02)*; 12 MONTHS $35,745

NAKAMOTO, KAZUO; *SPECTROSCOPIC STUDIES ON MOLECULAR OXYGEN ADDUCTS OF CO(II) CHELATES (CHE-7915169 A01)*; 12 MONTHS $34,175

UNIVERSITY OF WISCONSIN-MADISON

CERTAIN, PHILLIP R; *INVESTIGATIONS OF THE ELECTRONIC STRUCTURE OF MOLECULES (CHE-7850005 A17)*; 12 MONTHS $38,000

GOERING, HARLAN L; *ALKYLATION REACTIONS WITH ORGANOMETALIC COMPOUNDS (CHE-7850005 A18)*; 12 MONTHS $66,000

DAHL, LAWRENCE F; *STRUCTURAL SYSTEMATICS AND BONDING IN ORGANOMETALLIC COMPLEXES: NEW, UNUSUAL METAL CLUSTERS AND CLUSTER CHEMISTRY (CHE-7850005 A19)*; 12 MONTHS $126,800

NELSEN, STEPHEN F; *OXIDATION OF HETEROATOMIC SYSTEMS (CHE-7850005 A40)*; 12 MONTHS $51,900

EVANS, DENNIS H; *MECHANISTIC AND ANALYTICAL STUDIES IN ORGANIC ELECTROCHEMISTRY (CHE-7850005 A41)*; 12 MONTHS $64,000

LANGER, STANLEY H; *NEW CHEMICAL REACTOR APPLICATIONS OF CHROMATOGRAPHIC COLUMNS (CHE-7910129 A01)*; 12 MONTHS $44,740

WRIGHT, JOHN C; *ANALYTICAL APPLICATIONS OF RARE EARTH LASER SPECTROSCOPY (CHE-7950005 A08)*; 12 MONTHS $61,157

WIRTH, MARY J; *INVESTIGATION OF TWO-PHOTON SPECTROSCOPY AND ASSOCIATED RELAXATION PHENOMENA FOR ANALYTICAL CHEMISTRY (CHE-7950005 A09)*; 12 MONTHS $67,996

TROST, BARRY M; *NEW APROACHES FOR SELECTIVITY IN THE SYNTHESIS OF ORGANIC COMPOUNDS (CHE-7950005 A10)*; 12 MONTHS $110,845

TROST, BARRY M; *THIRD INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN, JUNE 15-20, 1980; CONFERENCE ON ORGANIC SYNTHESIS (CHE-7950005 A11)*; 12 MONTHS $7,550

EVANS, DENNIS H; *PURCHASE OF A BROAD-BAND NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-7950005 A12)*; 12 MONTHS $97,000

WALTERS, JOHN P; *INVESTIGATION, USE, AND CONTROL OF PHYSICAL AND CHEMICAL PHENOMENA IN SPECTROSCOPICALLY-USEFUL ELECTRICAL DISCHARGES (CHE-7950005 A13)*; 12 MONTHS $107,280

CASEY, CHARLES P; *ORGANOMETALLIC REACTION MECHANISMS (CHE-7950005 A14)*; 12 MONTHS $61,800

FENSKE, RICHARD F; *MOLECULAR ORBITAL CALCULATIONS FOR TRANSITION METAL COMPLEXES (CHE-7950005 A15)*; 12 MONTHS $30,000

ELLIS, ARTHUR B; *PHOTOCHEMISTRY AND ELECTROCHEMISTRY OF ORGANOMETALLIC LANTHANIDE AND ACTINIDE COMPLEXES (CHE-7950005 A16)*; 12 MONTHS $40,000

TAYLOR, JAMES W; *KINETIC ISOTOPE EFFECTS AS A PROBE TO CHEMICAL REACTIVITY (CHE-7950005 A17)*; 12 MONTHS $37,600

WOODS, R CLAUDE; *MICROWAVE SPECTROSCOPY OF IONS AND OTHER TRANSIENT SPECIES (CHE-7950005 A18)*; 12 MONTHS $51,000

WEST, ROBERT; *POLYQUINOCYCLOALKANES AND OXOCARBONS (CHE-7950005 A19)*; 12 MONTHS $70,382

ZIMMERMAN, HOWARD E; *MECHANISTIC AND EXPLORATORY ORGANIC PHOTOCHEMISTRY (CHE-7950005 A20)*; 12 MONTHS $105,800

CURTISS, CHARLES F; *ROTATIONAL EXCITATION CROSS-SECTIONS AND TRANSPORT PROPERTIES OF GASES (CHE-7950005 A21)*; 12 MONTHS $42,649

VEDEJS, EDWIN; *MACROLIDE AGLYCONES: MACROCYCLE CHEMISTRY (CHE-7950005 A22)*; 12 MONTHS $71,735

HIRSCHFELDER, JOSEPH O; *INTERACTION OF ELECTROMAGNETIC FIELDS WITH ATOMS AND MOLECULES (CHE-7950005 A23)*; 12 MONTHS $42,000

WHITLOCK, HOWARD W; *WATER SOLUBLE MOLECULES CONTAINING HYDROPHOBIC CAVITIES (CHE-7950005 A24)*; 12 MONTHS $44,100

GAINES, DONALD F; *METAL- AND NONMETAL-BORON CLUSTERS, SYNTHETIC AND MECHANISTIC STUDIES (CHE-7950005 A25)*; 12 MONTHS $75,800

UNIVERSITY OF WISCONSIN-MILWAUKEE

HOWE, RUSSELL F, AND WATTERS, KENNETH L; *SUPPORTED METAL CATALYSTS FROM CLUSTER CARBONYL COMPLEXES. CHARACTERIZATION AND CATALYTIC PROPERTIES (CHE-7720373 A02)*; 12 MONTHS $47,306

COOK, JAMES M; *GENERAL METHOD FOR THE SYNTHESIS OF POLYCYCLOPENTANOID COMPOUNDS (CHE-7910302 A01)*; 12 MONTHS $32,500

VANSELOW, RALF; *PURCHASE OF A GAS CHROMATOGRAPH MASS SPECTROMETER WITH ELECTRON IMPACT/CHEMICAL IONIZATION SOURCE (CHE-7923890)*; 12 MONTHS $73,100

WYOMING

UNIVERSITY OF WYOMING

SCHAEFFER, RILEY O; *NEUTRAL CLUSTERS BASED ON METAL-OXYGEN FRAMEWORKS (CHE-8008867)*; 24 MONTHS $84,000

MATHEMATICAL SCIENCE

ALABAMA

AUBURN UNIVERSITY

FIEDLER, MIROSLAV; *SPECIAL CLASSES OF MATRICES (MCS-7912494)*; 12 MONTHS $8,000

HAYNSWORTH, EMILIE V, WALL, JAMES R, AND GRONE, ROBERT D; *NATIONAL MATRIX THEORY CONFERENCE, AUBURN UNIVERSITY, MARCH 19-22, 1980 (MCS-7924432)*; 6 MONTHS $5,800

LINDNER, CHARLES C; *LATIN SQUARES, QUASIGROUPS, STEINER TRIPLE AND QUADRUPLE SYSTEMS, BLOCK DESIGNS, AND RELATED COMBINATORIAL STRUCTURES (MCS-8003053)*; 36 MONTHS $15,400

UNIVERSITY OF ALABAMA

HOPENWASSER, ALAN; *OPERATOR ALGEBRAS (MCS-8002919)*; 24 MONTHS $18,445

UNIVERSITY OF ALABAMA IN BIRMINGHAM

VAUGHAN, L O; *CONFERENCE ON TOPOLOGY, BIRMINGHAM, ALABAMA, MARCH 20-22, 1980 (MCS-7922039)*; 12 MONTHS $8,000

LEWIS, ROGER T; *QUALITATIVE SPECTRAL ANALYSIS OF SINGULAR ORDINARY AND ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS (MCS-8005811)*; 24 MONTHS $21,033

UNIVERSITY OF ALABAMA IN HUNTSVILLE

CASAZZA, PETER G; *BANACH SPACES WITH SYMMETRIC BASES: THE PRIMARY QUESTION (MCS-8002221)*; 12 MONTHS $9,875

ARIZONA

ARIZONA STATE UNIVERSITY

GOLUBITSKY, MARTIN; *SINGULARITIES OF DIFFERENTIAL FORMS & STEADY-STATE BIFURCATION THEORY (MCS-7926516)*; 12 MONTHS $13,762

BUSTOZ, JOAQUIN, AND ISMAIL, MOURAD; *APPLICATIONS OF ORTHOGONAL POLYNOMIALS (MCS-8002539)*; 12 MONTHS $13,356

KUIPER, HENDRIK J, AND KEYFITZ, BARBARA L; *MATHEMATICAL PROBLEMS IN SYSTEMS OF REACTION-DIFFUSION EQUATIONS ARISING IN COMBUSTION PROBLEMS (MCS-8002751)*; 12 MONTHS $21,934

UNIVERSITY OF ARIZONA

CUSHING, JIM M; *NONLINEAR OSCILLATIONS IN AGE DEPENDENT POPULATION DYNAMICS (MCS-7901307 A01)*; 24 MONTHS $25,500

BHATTACHARYA, RABINDRA N; *REFINEMENTS OF CENTRAL LIMIT THEOREMS UNDER DEPENDENCE AND APPLICATIONS (MCS-7903004 A01)*; 24 MONTHS $23,395

FLASCHKA, HERMANN, AND MCLAUGHLIN, DAVID W; *THEORY AND APPLICATION OF INVERSE SPECTRAL TRANSFORM (MCS-7903533 A01)*; 12 MONTHS $24,846

FIFE, PAUL C; *THE MATHEMATICS OF REACTING AND DIFFUSING SYSTEMS (MCS-7904443 A01)*; 12 MONTHS $16,549

GROEMER, HELMUT; *COVERING PROBLEMS FOR CONVEX SETS (MCS-8001578)*; 12 MONTHS $15,970

BHATTACHARYA, P K; *ASYMPTOTIC METHODS OF STATISTICS (MCS-8002774)*; 12 MONTHS $14,243

FARIS, WILLIAM G; *TIME EVOLUTION OF CONTINUOUS SPIN SYSTEMS (MCS-8002945)*; 24 MONTHS $22,684

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

COHEN, DONALD S, AND LAGERSTROM, PACO A; *DIFFERENTIAL EQUATIONS AND CONTINUUM MECHANICS (MCS-7803036 A03)*; 12 MONTHS $57,079

HALL, MARSHALL, AND RYSER, HERBERT J; *ALGEBRA AND COMBINATORIAL THEORY (MCS-7821599 A01)*; 12 MONTHS $36,000

LUXEMBURG, W A; *FUNCTIONAL ANALYSIS AND NONSTANDARD ANALYSIS (MCS-7822828 A01)*; 12 MONTHS $20,007

KECHRIS, A S; *SET THEORY (MCS-7920465)*; 24 MONTHS $34,606

ASCHBACHER, MICHAEL; *GROUP THEORY (MCS-8001603)*; 12 MONTHS $27,500

CALIFORNIA STATE UNIVERSITY, HAYWARD

MERRIS, RUSSELL; *SYMMETRY CLASSES OF TENSORS (MCS-7728437 A01)*; 24 MONTHS $20,700

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

HAGOPIAN, CHARLES L; *FIXED-POINT PROBLEMS FOR PLANE CONTINUA (MCS-7916811)*; 12 MONTHS $18,943

CLAREMONT GRADUATE SCHOOL

JAMES, ROBERT C; *GEOMETRY OF NORMED LINEAR SPACES (MCS-7801890 A02)*; 12 MONTHS $15,261

VITALE, RICHARD A; *RANDOM SETS - PROBABILITY AND INFERENCE (MCS-7903214 A01)*; 24 MONTHS $24,160

INDIVIDUAL AWARD

SCHILLING, MARK F; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-7919141 A01)*; 12 MONTHS $17,000

HAGAN, PATRICK; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-7919148 A01)*; 12 MONTHS $17,000

DEKEN, JOSEPH G; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-7919151 A01)*; 12 MONTHS $17,000

GOLDMAN, WILLIAM M; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017199)*; 12 MONTHS $17,000

POMONA COLLEGE

COOKE, KENNETH L, ELDERKIN, RICHARD H, AND BUSENBERG, STAVROS N; *PROBLEMS IN FUNCTIONAL DIFFERENTIAL EQUATIONS WITH APPLICATIONS IN BIOLOGY (MCS-7903497 A01)*; 12 MONTHS $20,000

GRABINER, SANDY; *RADICAL BANACH ALGEBRAS WITH APPLICATIONS TO OPERATOR THEORY (MCS-8002923)*; 24 MONTHS $21,477

COOKE, KENNETH L; *REGIONAL CONFERENCE ON GLOBAL CONTINUATION METHODS IN APPLIED MATHEMATICS, CLAREMONT, CALIFORNIA, JANUARY 12-16, 1981 (MCS-8005804)*; 6 MONTHS $14,400

SAN JOSE STATE UNIVERSITY

POSNER, DAVID B; *RECURSIVE FUNCTIONS AND DEGREES OF UNSOLVABILITY (MCS-7903379 A01)*; 24 MONTHS $16,076

STANFORD UNIVERSITY

DANTZIG, GEORGE B, COTTLE, RICHARD W, AND HILLIER, FREDERICK S; *OPTIMIZATION THEORY (MCS-7681359 A03)*; 12 MONTHS $59,882

EFRON, BRADLEY, AND STEIN, CHARLES M; *STATISTICAL THEORY AND METHODOLOGY (MCS-7716974 A02)*; 12 MONTHS $130,173

OSSERMAN, ROBERT, AND YAU, SHING TUN; *GEOMETRY OF DIFFERENTIAL MANIFOLDS AND ASSOCIATED PARTIAL DIFFERENTIAL EQUATIONS (MCS-7804872 A02)*; 12 MONTHS $78,886

OSSERMAN, ROBERT, AND YAU, SHING TUN; *GEOMETRY OF DIFFERENTIAL MANIFOLDS AND ASSOCIATED PARTIAL DIFFERENTIAL EQUATIONS (MCS-7804872 A03)*; $3,517

OLKIN, INGRAM; *MULTI-DIMENSIONAL STATISTICAL ANALYSIS (MCS-7807736 A02)*; $15,907

OLKIN, INGRAM; *MULTI-DIMENSIONAL STATISTICAL ANALYSIS (MCS-7807736 A03)*; 12 MONTHS $58,444

ORNSTEIN, DONALD S, *PROBABILITY AND ERGODIC THEORY (MCS-7807739 A02)*; 12 MONTHS $47,506

ORNSTEIN, DONALD S; *ERGODIC THEORY ON SHIFT SPACES (MCS-7807739 A03)*; $18,273

COHEN, PAUL J; *FUNCTIONAL ANALYSIS (MCS-7807895 A02)*; 12 MONTHS $39,009

GILBARG, DAVID; *CLASSICAL AND APPLIED ANALYSIS (MCS-7819886 A01)*; 12 MONTHS $73,522

GILBARG, DAVID; *CLASSICAL AND APPLIED ANALYSIS (MCS-7819886 A02)*; $12,000

EAVES, B CURTIS; *COMPUTATION OF FIXED POINTS (MCS-7903145 A01*)*; 24 MONTHS $8,998

SIU, YUM-TONG; *SEVERAL COMPLEX VARIABLES AND ANALYTICS SPACES* (MCS-7904476 A01); 12 MONTHS $23,436

FEFERMAN, SOLOMON; *MATHEMATICAL LOGIC AND THE FOUNDATIONS OF MATHEMATICS* (MCS-7905026 A01); 12 MONTHS $57,289

SAMELSON, HANS, AND MILGRAM, R J; *ALGEBRA AND TOPOLOGY* (MCS-7906085 A01); 12 MONTHS $42,000

KELLER, JOSEPH B; *MATHEMATICAL PROBLEMS IN VARIOUS APPLIED FIELDS* (MCS-7918065); 24 MONTHS $64,814

KELLER, JOSEPH B; *MATHEMATICAL PROBLEMS IN VARIOUS APPLIED FIELDS* (MCS-7918065 A01); $17,000

KARLIN, SAMUEL, AND MCGREGOR, JAMES L; *TOPICS IN ANALYSIS, TOTAL POSITIVITY AND RELATED MATHEMATICAL MODELS IN BIOLOGY* (MCS-7924310*); 12 MONTHS $42,885

CHUNG, KAI L; *PROBABILITY METHODS IN POTENTIAL THEORY AND ANALYSIS* (MCS-8001540); 12 MONTHS $27,178

PHILLIPS, RALPH S; *SCATTERING THEORY* (MCS-8001943); 12 MONTHS $34,465

UNIVERSITY OF CALIFORNIA, BERKELEY

SMALE, STEPHEN; *GLOBAL ANALYSIS AND APPLICATIONS* (MCS-7717907 A02); 12 MONTHS $57,412

TARSKI, ALFRED, AND HENKIN, LEON; *MATHEMATICS AND ITS RELATION TO ALGEBRA, SET THEORY, AND FOUNDATIONS OF GEOMETRY* (MCS-7722913 A02); 12 MONTHS $49,200

CHERN, SHIING-SH; *RESEARCH ON MINIMAL SURFACES AND ELLIPTIC DIFFERENTIAL EQUATIONS* (MCS-7723579 A02); $7,800

CHERN, SHIING-SH; *STUDIES ON EIGENVALUES AND PHYSICAL APPLICATIONS* (MCS-7723579 A03); $9,006

CHERN, SHIING-SH, LAWSON, BLAINE, AND WEINSTEIN, ALAN D; *DIFFERENTIAL GEOMETRY* (MCS-7723579 A04); 12 MONTHS $125,000

KIRBY, ROBION C; *ALGEBRAIC AND DIFFERENTIAL TOPOLOGY* (MCS-7724103 A02); 12 MONTHS $24,600

FELDMAN, JACOB; *SOME TOPICS IN ANALYSIS PROBABILITY & MATHEMATICAL PHYSICS* (MCS-7806718 A04); 12 MONTHS $54,200

KIEFER, J; *MATHEMATICAL STATISTICS INCLUDING RELATED PROBABILITY AND COMPUTER SCIENCE* (MCS-7825301 A01); 12 MONTHS $70,000

KOBAYASHI, SHOSHICHI, AND WOLF, JOSEPH A; *LIE GROUPS AND DIFFERENTIAL GEOMETRY* (MCS-7902522 A01); 12 MONTHS $59,435

KATO, TOSIO, AND CORDES, H O; *PARTIAL DIFFERENTIAL EQUATIONS AND OPERATOR THEORY* (MCS-7902578 A01); 12 MONTHS $38,300

LEHMANN, ERICH L; *STUDIES IN STATISTICAL INFERENCE* (MCS-7903716 A01); 24 MONTHS $55,924

SOLOVAY, ROBERT M; *TOPICS IN SET THEORY* (MCS-7906077 A01); 12 MONTHS $15,500

SATAKE, ICHIRO; *ALGEBRAIC GROUPS AND ABELIAN VARIETIES* (MCS-7906826 A01); 12 MONTHS $14,300

SATAKE, ICHIRO; *ALGEBRAIC GROUPS AND ABELIAN VARIETIES* (MCS-7906826 A02); $3,000

VAUGHT, ROBERT L, AND SILVER, JACK H; *FOUNDATIONS OF MATHEMATICS* (MCS-7907774 A01); 12 MONTHS $51,900

CHENG, CHING-SHU; *OPTIMAL DESIGN* (MCS-7909502 A01); 12 MONTHS $7,561

ROSENLICHT, MAXWELL A; *ALGEBRAIC GEOMETRY AND ALGEBRAIC STRUCTURES* (MCS-8002317); 12 MONTHS $94,700

FREEDMAN, DAVID, AND DUBINS, LESTER E; *CHANCE PROCESSES* (MCS-8002545); 12 MONTHS $40,306

LE CAM, LUCIEN, AND MILLAR, PRESSLEY W; *PROBABILITY AND STATISTICS* (MCS-8002698); 12 MONTHS $23,515

LAM, T Y; *FIELD THEORY AND QUADRATIC FORMS* (MCS-8002854); 12 MONTHS $11,400

THOMAS, P EMERY; *TOPOLOGY* (MCS-8002858); 12 MONTHS $75,700

KLASS, MICHAEL J; *SUMS OF INDEPENDENT RANDOM ELEMENTS* (MCS-8004022); 12 MONTHS $10,532

MILLER, KEITH; *NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS* (MCS-8005784); 12 MONTHS $20,000

ARVESON, WILLIAM B; *NONLINEAR SPECTRAL THEORY* (MCS-8006264); 12 MONTHS $11,650

NEWELL, GORDON F; *APPLICATIONS OF MATHEMATICS TO TRANSPORTATION STUDIES* (MCS-8007193); 12 MONTHS $25,875

MOORE, CALVIN C, AND RIEFFEL, MARC A; *FUNCTIONAL ANALYSIS* (MCS-8010723); 24 MONTHS $37,200

UNIVERSITY OF CALIFORNIA, DAVIS

HOWES, FREDERICK A; *STUDIES IN NONLINEAR SINGULAR PERTURBATION THEORY* (MCS-8001615); 24 MONTHS $17,348

KREITH, KURT; *QUALITATIVE THEORY OF HYPERBOLIC DIFFERENTIAL EQUATIONS* (MCS-8002130); 12 MONTHS $13,721

BLUM, J R; *PROBLEMS IN DECISION THEORY, STATISTICAL INFERENCE AND ERGODIC THEORY* (MCS-8002179); 12 MONTHS $18,222

KRENER, ARTHUR J; *NONLINEAR SYSTEMS UNDER FEEDBACK* (MCS-8003263*); 12 MONTHS $7,197

UNIVERSITY OF CALIFORNIA, IRVINE

KLEIN, ABEL; *STOCHASTIC PROCESSES ASSOCIATED WITH QUANTUM SYSTEMS* (MCS-7801433 A01); 24 MONTHS $20,492

KUNZE, RAY A; *GROUP REPRESENTATIONS AND ANALYSIS ON HOMOGENEOUS SPACES* (MCS-7902124 A02); 12 MONTHS $14,546

TUCKER, HOWARD G; *MULTIVARIATE CENTRAL LIMIT THEOREMS* (MCS-8001583); 12 MONTHS $13,238

MESSING, WILLIAM; *ARITHMETIC ALGEBRAIC GEOMETRY* (MCS-8002982); 24 MONTHS $25,700

FRIED, MICHAEL D; *REPRESENTATIONS OF THE ARTIN BRAID GROUP, AND ARITHMETIC AND ALGEBRAIC CHALLENGES TO RIEMANN'S THEOREM* (MCS-8003253); 24 MONTHS $25,000

EKLOF, PAUL C; *LOGIC AND ALGEBRA* (MCS-8003591); 12 MONTHS $12,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

OSHER, STANLEY J; *NUMERICAL ANALYSIS AND APPLIED PARTIAL DIFFERENTIAL EQUATIONS* (MCS-7801252 A01); 24 MONTHS $27,300

BABBITT, DONALD G; *SOME MATHEMATICAL PROBLEMS ARISING IN QUANTUM THEORY* (MCS-7801476 A02); 12 MONTHS $10,800

MOSCHOVAKIS, YIANNIS N, AND MARTIN, DONALD A; *RECURSION THEORY AND SET THEORY* (MCS-7802989 A02); 12 MONTHS $40,500

GEOFFRION, ARTHUR M, AND GRAVES, GLENN W; *OPTIMIZATION OF LARGE-SCALE SYSTEMS* (MCS-7822674 A01*); 12 MONTHS $17,500

ELMAN, RICHARD S; *ALGEBRAIC THEORY OF QUADRATIC FORMS* (MCS-7827001 A01); $7,000

GRELNE, ROBERT E, AND O'NEILL, BARRETT; *DIFFERENTIAL GEOMETRY* (MCS-7901062 A01); 12 MONTHS $39,200

STRAUS, ERNST G; *ALGEBRA, NUMBER THEORY, AND COMBINATORICS* (MCS-7903162 A01); 12 MONTHS $12,000

GIESEKER, DAVID; *ALGEBRAIC GEOMETRY* (MCS-7903171 A01); 12 MONTHS $16,500

VARADARAJAN, V S; *HARMONIC ANALYSIS ON SEMISIMPLE LIE GROUPS* (MCS-7903184 A01); 12 MONTHS $12,000

CANTOR, DAVID G; *COMBINATORICS, ALGEBRA, AND NUMBER THEORY* (MCS-7903711 A01); 12 MONTHS $34,600

COOK-IOANNIDIS , L P; *MATHEMATICAL PROBLEMS IN TRANSONIC FLOW* (MCS-8002203); 24 MONTHS $10,281

CURTIS, PHILIP C; *AUTOMATIC CONTINUITY AND RADICAL BANACH ALGEBRAS* (MCS-8002557); 12 MONTHS $27,827

STONE, CHARLES J; *STATISTICS AND INFINITE PARTICLE SYSTEMS* (MCS-8002732); 12 MONTHS $62,000

STONE, CHARLES J; *STATISTICS AND INFINITE PARTICLE SYSTEMS* (MCS-8002732 A01); $6,742

GAMELIN, THEODORE W; *FUNCTIONAL ANALYSIS AND FUNCTION THEORY* (MCS-8002955); 12 MONTHS $67,343

EDWARDS, ROBERT D, AND HATCHER, ALLEN E; *GEOMETRY AND TOPOLOGY OF MANIFOLDS* (MCS-8003571); 12 MONTHS $33,500

UNIVERSITY OF CALIFORNIA, RIVERSIDE

BLOCK, RICHARD E; *LIE ALGEBRAS AND RELATED TOPICS* (MCS-7903161 A01); 12 MONTHS $18,700

RATL, F, LOUIS J; *ON VARIOUS CHAIN CONDITIONS FOR PRIME IDEALS* (MCS-8001597); 12 MONTHS $13,200

SHAPIRO, VICTOR L; *THE MATHEMATICAL THEORY OF VISCOUS INCOMPRESSIBLE FLOW* (MCS-8001898); 12 MONTHS $15,521

UNIVERSITY OF CALIFORNIA, SAN DIEGO

SMALL, LANCE; *RING THEORY* (MCS-7801367 A01); 24 MONTHS $31,000

HAFF, LEONARD R; *IMPROVED METHODS IN MULTIVARIATE ANALYSIS* (MCS-7801942 A01); 12 MONTHS $8,560

ENRIGHT, THOMAS J; *A STUDY OF HARISH-CHANDRA MODULES* (MCS-7803896 A02); 12 MONTHS $8,985

RODIN, BURTON; *CONFORMAL MAPPING, EXTREMAL LENGTH AND RIEMANN SURFACES* (MCS-7903018 A01); 12 MONTHS $25,243

GARSIA, ADRIANO M; *COMBINATORICS* (MCS-7903406 A01); 12 MONTHS $22,100

GETOOR, RONALD K; *MARKOV PROCESSES AND RELATED TOPICS* (MCS-7921922); 12 MONTHS $27,165

WILLIAMSON, STANLEY G, AND BENDER, EDWARD A; *COMBINATORIAL ALGORITHMS AND ASYMPTOTICS* (MCS-7927060*); 24 MONTHS $21,500

HELTON, J WILLIAM; *OPERATOR THEORY MOTIVATED BY THEORETICAL ENGINEERING AND BY PARTIAL DIFFERENTIAL EQUATIONS* (MCS-8001698*); 12 MONTHS $12,505

WULBERT, DANIEL E; *NONLINEAR APPROXIMATION OF CONTINUOUS FUNCTIONS* (MCS-8001813); 24 MONTHS $19,603

ANDERSON, DONALD W; *ALGEBRAIC TOPOLOGY, HOMOTOPY THEORY AND LOW DIMENSIONAL SURGERY* (MCS-8001661); 12 MONTHS $35,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

AKEMANN, CHARLES A; *OPERATOR ALGEBRAS ASSOCIATED WITH LOCALLY COMPACT GROUPS* (MCS-7801870 A01); 24 MONTHS $26,133

FAN, KY; *FUNCTIONAL ANALYSIS* (MCS-7903083 A01); 12 MONTHS $15,539

BRUCKNER, ANDREW M; *PROBLEMS CONCERNING THE DIFFERENTIATION OF REAL FUNCTIONS* (MCS-8001787); 12 MONTHS $13,285

SOBEL, MILTON, AND PESOTCHINSKY, LEON; *NONPARAMETRIC THEORY RANKING AND SELECTION, SEARCH AND DESIGN PROBLEMS AND ERGODIC THEORY* (MCS-8002135); 24 MONTHS $63,188

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

GUCKENHEIMER, JOHN, ABRAHAM, RALPH, FISCHER, ARTHUR, AND TROMBA, ANTHONY J; *GLOBAL ANALYSIS* (MCS-7902002 A01); 12 MONTHS $47,143

WIDOM, HAROLD; *RESEARCH IN PSUEDODIFFERENTIAL OPERATORS* (MCS-8002330); 12 MONTHS $16,724

FRIED, DAVID; *DYNAMICAL SYSTEMS AND TOPOLOGY* (MCS-8003622); 24 MONTHS $16,575

UNIVERSITY OF SOUTHERN CALIFORNIA

BRUCK, RONALD E, AND REICH, SIMEON; *BEHAVIOR OF NONLINEAR EVOLUTION SYSTEMS IN INFINITE DIMENSIONAL BANACH SPACES* (*MCS-7802305 A02*); 12 MONTHS $19,580

HARRIS, THEODORE E; *STOCHASTIC PROCESSES* (*MCS-7900894 A01*); 12 MONTHS $19,517

BLANCHARD, PAUL R; *THE PERIODIC BEHAVIOR OF TWO AND THREE DIMENSIONAL DYNAMICAL SYSTEMS* (*MCS-7903788 A01*); 24 MONTHS $16,700

RESCO, RICHARD; *TRANSCENDENTAL DIVISION ALGEBRAS AND NOETHERIAN RINGS* (*MCS-8002237*); 24 MONTHS $16,700

COLORADO

COLORADO STATE UNIVERSITY

BROCKWELL, P J, AND RESNICK, SIDNEY I; *EXTREME VALUES, STABLE LAWS, AND STOCHASTIC MODELS* (*MCS-7800915 A01*); 24 MONTHS $55,150

GAINES, ROBERT E; *EXISTENCE OF SOLUTIONS TO HAMILTONIAN SYSTEMS OF ECONOMIC DYNAMICS* (*MCS-7802907 A01*); 24 MONTHS $24,962

SRIVASTAVA, JAYA N; *STATISTICAL AND MATHEMATICAL THEORY OF PROBLEMS OF EXPERIMENTAL DESIGN AND RELATED FIELDS* (*MCS-8003893*); 12 MONTHS $9,000

UNIVERSITY OF COLORADO AT BOULDER

ELLIOTT, PETER D T A; *STUDIES IN THE ANALYTIC AND PROBABILISTIC THEORY OF NUMBERS* (*MCS-7904374 A01*); 24 MONTHS $23,800

SATHER, DUANE P; *APPLICATIONS OF PARTIAL DIFFERENTIAL EQUATIONS AND GROUP REPRESENTATIONS TO NONLINEAR SHELL THEORY* (*MCS-7923650**); 12 MONTHS $6,068

HERMES, HENRY; *SYNTHESIS OF STABILIZING FEEDBACK CONTROLS AND CONTROLLABILITY FOR NONLINEAR SYSTEMS* (*MCS-7926316**); 36 MONTHS $25,850

EASTON, ROBERT; *TOPOLOGICAL METHODS IN HAMILTONIAN MECHANICS AND ERGODIC THEORY* (*MCS-8001526*); 24 MONTHS $20,985

JONES, WILLIAM B, AND THRON, WOLFGANG J; *RATIONAL APPROXIMATION AND APPLICATIONS* (*MCS-8001569*); 12 MONTHS $26,045

RAMSAY, ARLAN, AND BAGGETT, LAWRENCE W; *LOCALLY COMPACT GROUPS* (*MCS-8002485*); 12 MONTHS $31,730

LAVER, RICHARD J; *PROBLEMS IN LARGE CARDINALS, FORCING, AND COMBINATORICS* (*MCS-8006056*); 24 MONTHS $20,877

HOLLEY, RICHARD, AND STROOCK, DANIEL W; *DIFFUSION PROCESSES AND RELATED TOPICS* (*MCS-8007300*); 12 MONTHS $23,460

CONNECTICUT

INDIVIDUAL AWARD

SALTMAN, DAVID J; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP* (*MCS-8017160*); 12 MONTHS $17,000

SIAM INSTITUTE FOR MATH & SOCIETY (SIMS)

THOMSEN, DONALD L; *STATISTICS AND ENVIRONMENTAL FACTORS IN HEALTH* (*MCS-7907549 A01*); 12 MONTHS $33,980

UNIVERSITY OF CONNECTICUT

BLEI, RON C; *FRACTIONAL PRODUCTS OF SETS AND CERTAIN NORMS IN HARMONIC ANALYSIS* (*MCS-8002716*); 24 MONTHS $20,994

WESLEYAN UNIVERSITY

REID, JAMES D; *ABELIAN GROUPS FINITELY GENERATED OVER THEIR ENDOMORPHISM RINGS* (*MCS-8004456*); 24 MONTHS $25,000

LINTON, F E J; *CATEGORICAL ALGEBRA: TOPOS THEORY, UNIVERSAL ALGEBRA, AND RELATIVE CATEGORY THEORY* (*MCS-8006177*); 12 MONTHS $11,600

YALE UNIVERSITY

KAKUTANI, SHIZUO; *FUNCTIONAL ANALYSIS & PROBABILITY* (*MCS-7721556 A03*); 12 MONTHS $31,705

BEALS, RICHARD W; *PARTIAL DIFFERENTIAL EQUATIONS AND ANALYSIS* (*MCS-7802945 A02*); 12 MONTHS $18,689

TAMAGAWA, TSUNEO; *ALGEBRAIC AND ARITHMETIC STUDIES OF INVOLUTORIAL ALGEBRAS* (*MCS-7904470 A01*); 12 MONTHS $17,000

JACOBSON, NATHAN; *ALGEBRA AND GROUP THEORY* (*MCS-7904473 A01*); $7,200

JACOBSON, NATHAN; *ALGEBRA AND GROUP THEORY* (*MCS-7904473 A02*); 12 MONTHS $85,000

MOSTOW, GEORGE D; *THEORY OF LIE GROUPS* (*MCS-7905018 A01*); $7,700

MOSTOW, GEORGE D; *THEORY OF LIE GROUPS* (*MCS-7905018 A02*); 12 MONTHS $88,000

BALINSKI, MICHEL L; *AXIOMATIZATION AND OPTIMIZATION FOR COLLECTIVE DECISION STRUCTURES* (*MCS-7913140 A01*); $6,348

BALINSKI, MICHEL L; *MATHEMATICAL MODELING AND AXIOMATIZATION OF APPORTIONMENT SCHEMES AND OF GROUP DECISION DEVICES* (*MCS-7913140 A02**); 12 MONTHS $16,060

LANG, SERGE; *NUMBER THEORY AND ELLIPTIC CURVES* (*MCS-8002200*); 12 MONTHS $26,000

MASSEY, WILLIAM S; *ALGEBRAIC AND DIFFERENTIAL TOPOLOGY* (*MCS-8002332*); 12 MONTHS $83,575

MACINTYRE, ANGUS J; *LOGIC AND NUMBER THEORY* (*MCS-8002717*); 12 MONTHS $41,180

ZUCKERMAN, GREGG J; *INFINITE DIMENSIONAL REPRESENTATIONS OF LIE GROUPS* (*MCS-8005151*); 24 MONTHS $25,726

JACOBSON, NATHAN; *SCHUBERT CALCULUS OF LOOP GROUPS* (*MCS-8005869*); 24 MONTHS $17,200

DELAWARE

UNIVERSITY OF DELAWARE

COLTON, DAVID L, AND GILBERT, ROBERT P; *APPLICATION OF FUNCTION THEORETIC METHODS TO THE PROBLEMS OF PHYSICAL MATHEMATICS* (*MCS-7802452 A01*); 24 MONTHS $35,539

DISTRICT OF COLUMBIA

CATHOLIC UNIVERSITY OF AMERICA

HAGLER, JAMES N; *BANACH SPACES CONTAINING* (*MCS-8003011*); 24 MONTHS $17,134

DEPARTMENT OF NAVY-NAVAL RESEARCH LABORATORY

BRODSKY, STUART L; *AN ADVANCED SEMINAR ON SINGULAR PERTURBATIONS AND ASYMPTOTICS TO BE HELD MAY 27-30, 1980* (*MCS-8001942*); 6 MONTHS $6,000

GEORGE WASHINGTON UNIVERSITY

GASTWIRTH, JOSEPH L; *METHODS OF STATISTICAL INFERENCE* (*MCS-8005872*); 12 MONTHS $15,019

GEORGETOWN UNIVERSITY

DATKO, RICHARD; *INVESTIGATION OF SOME QUALITATIVE PROPERTIES OF LINEAR DIFFERENTIAL-DIFFERENCE EQUATIONS IN HILBERT SPACES* (*MCS-8003249*); 12 MONTHS $10,663

FLORIDA

FLORIDA STATE UNIVERSITY

HUNTER, CHRISTOPH; *THE DYNAMICS OF GRAVITATING SYSTEMS* (*MCS-7728148 A02*); 12 MONTHS $14,943

GILMER, ROBERT; *INVESTIGATIONS IN COMMUTATIVE ALGEBRA* (*MCS-7903123 A01*); 12 MONTHS $15,600

BASU, DEBABRATA; *FOUNDATIONAL QUESTIONS IN STATISTICAL INFERENCE* (*MCS-7904693 A01*); 12 MONTHS $14,750

UNIVERSITY OF MIAMI

CONNELL, EDWIN H; *NON-LINEAR K-THEORY* (*MCS-7728188 A01*); 24 MONTHS $26,100

UNIVERSITY OF SOUTH FLORIDA

WOLFOWITZ, JACOB; *STUDIES IN INFORMATION THEORY* (*ECS-7926232**); 24 MONTHS $15,000

SAFF, EDWARD B; *POLYNOMIAL AND RATIONAL FUNCTIONS: APPROXIMATION, INTERPOLATION, AND CRITICAL POINTS* (*MCS-8003185*); 24 MONTHS $26,215

GEORGIA

EMORY UNIVERSITY

EVANS, TREVOR; *VARIETIES OF ALGEBRAS* (*MCS-7903693 A01*); 12 MONTHS $16,432

BATTERSON, STEVEN L, AND FORD, DAVID A; *REGIONAL CONFERENCE IN HOMOLOGY AND DYNAMICAL SYSTEMS, ATLANTA, GEORGIA, AUGUST, 18-22, 1980* (*MCS-7927304*); 6 MONTHS $12,500

GEORGIA INSTITUTE OF TECHNOLOGY

FORD, JOSEPH B; *CLASSICAL AND QUANTUM THEORY OF TURBULENT BEHAVIOR IN NONLINEAR SYSTEMS* (*DMR-7827584 A02**); 12 MONTHS $13,300

JEROSLOW, ROBERT G; *NONLINEAR PROGRAMMING AND CUTTING-PLANE THEORY* (*ECS-8001763**); 12 MONTHS $13,751

GERONIMO, JEFFREY; *SCATTERING THEORY AND ORTHOGONAL POLYNOMIALS* (*MCS-8002731*); 24 MONTHS $16,556

UNIVERSITY OF GEORGIA

JOHNSON, KENNETH D; *GENERALIZED BOUNDARIES OF SYMMETRIC SPACES* (*MCS-7903819 A01*); 24 MONTHS $20,322

HOLLINGSWORTH, JOHN G; *GEOMETRIC TOPOLOGY* (*MCS-7904710 A01*); 12 MONTHS $27,746

AZOFF, EDWARD A, AND CLANCEY, KEVIN F; *PROBLEMS IN OPERATOR THEORY AND RELATED ANALYSIS* (*MCS-8002158*); 24 MONTHS $39,938

CARLSON, JON F; *REPRESENTATIONS OF MODULAR GROUP ALGEBRAS* (*MCS-8001509*); 24 MONTHS $19,000

POMERANCE, CARL; *TOPICS IN NUMBER THEORY* (*MCS-8002694*); 12 MONTHS $8,700

CANFIELD, E R; *COMBINATORIAL PROBLEMS IN EXTREMAL SET THEORY, WITH APPLICATIONS OF ALGEBRAIC TOPOLOGY* (*MCS-8005993*); 12 MONTHS $8,400

HAWAII

UNIVERSITY OF HAWAII-MANOA

HANF, WILLIAM P, AND MYERS, DALE W; *BOOLEAN ALGEBRAS ASSOCIATED WITH FIRST-ORDER THEORIES* (*MCS-7901867 A01*); 24 MONTHS $45,252

CRAVEN, THOMAS C; *FORMALLY REAL FIELDS AND THEIR WITT RINGS* (*MCS-7900318 A01*); 24 MONTHS $16,800

BROWN, RONALD P; *ARITHMETIC METHODS IN THE REDUCED THEORY OF QUADRATIC FORMS* (*MCS-8002268*); 24 MONTHS $21,000

FREESE, RALPH S; *ALGEBRA AND COMBINATORICS* (*MCS-8002311*); 24 MONTHS $33,500

ILLINOIS

DEPAUL UNIVERSITY

TOWBER, JACOB; *ORTHOGONAL AND SYMPLECTIC SCHUR FUNCTORS, AND NATURAL TRANSFORMATIONS BETWEEN TENSOR PRODUCTS OF SCHUR FUNCTORS (MCS-8005113*)*; 24 MONTHS $20,500

ILLINOIS INSTITUTE OF TECHNOLOGY

LUBIN, ARTHUR R; *OPERATOR THEORY AND LINEAR SYSTEMS THEORY (MCS-7901442 A01)*; 12 MONTHS $9,800

MALKUS, DAVID S, AND BERNSTEIN, BARRY; *STEADY FLOW OF MEMORY FLUIDS WITH FINITE ELEMENTS (MCS-7903542 A01*)*; 12 MONTHS $5,767

INDIVIDUAL AWARD

MUELLER, CARL; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-7919142 A01)*; 12 MONTHS $17,000

FEJER, PETER A; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017150)*; 12 MONTHS $17,000

MARDEN, JOHN I; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017152)*; 12 MONTHS $17,000

KASS, ROBERT E; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017201)*; 12 MONTHS $17,000

NORTHERN ILLINOIS UNIVERSITY

WHEELER, ROBERT F; *TOPOLOGICAL MEASURE THEORY FOR COMPLETELY REGULAR SPACES AND THEIR PROJECTIVE COVERS (MCS-8002523)*; 12 MONTHS $10,900

NORTHWESTERN UNIVERSITY

WILLIAMS, ROBERT F, FRANKS, JOHN M, AND ROBINSON, R C; *GLOBAL ANALYSIS AND TOPOLOGY (MCS-7701080 A03)*; $8,000

MATKOWSKY, BERNARD J; *STUDIES OF NONLINEAR PROBLEMS IN APPLIED MATHEMATICS INCLUDING BIFURCATION AND STABILITY THEORY (MCS-7725680 A02)*; 12 MONTHS $39,438

FISHER, STEPHEN D; *APPROXIMATION THEORY AND COMPLEX ANALYSIS (MCS-7901464 A01)*; 24 MONTHS $22,192

GRAHAM, COLIN C; *RESEARCH IN HARMONIC ANALYSIS (MCS-7901875 A01)*; 12 MONTHS $19,520

PINSKY, MARK A; *STOCHASTIC METHODS IN ANALYSIS AND GEOMETRY (MCS-7902144 A02)*; 12 MONTHS $26,926

ZELINSKY, DANIEL; *ALGEBRA AND ALGEBRAIC GEOMETRY (MCS-7902413 A02)*; $8,000

BARRATT, MICHAEL G, AND MAHOWALD, MARK; *ALGEBRAIC TOPOLOGY (MCS-7927592 A01)*; 12 MONTHS $87,500

DEVINATZ, ALLEN; *FUNCTIONAL ANALYSIS AND DIFFERENTIAL EQUATIONS (MCS-7902538 A01)*; 12 MONTHS $18,517

MAHAR, THOMAS J; *APPROXIMATE SOLUTION OF NONLINEAR PROBLEMS IN APPLIED MATHEMATICS (MCS-7902541 A01*)*; 36 MONTHS $16,259

FRIEDMAN, AVNER; *PARTIAL DIFFERENTIAL EQUATIONS AND FUNCTIONAL ANALYSIS (MCS-7915171)*; 12 MONTHS $25,000

STEIN, MICHAEL R; *ALGEBRAIC K-THEORY (MCS-7921511)*; 12 MONTHS $5,000

FRIEDLANDER, ERIC M, AND STEIN, MICHAEL R; *CONFERENCE ON ALGEBRAIC K-THEORY, EVANSTON, ILLINOIS IN MARCH 1980 (MCS-7921513)*; 12 MONTHS $7,000

STEIN, MICHAEL R, AND SALLY, JUDITH D; *COMMUTATIVE ALGEBRA AND ALGEBRAIC K-THEORY (MCS-8000929)*; 12 MONTHS $23,800

JEROME, JOSEPH W; *THE NUMERICAL ANALYSIS AND APPROXIMATION THEORY OF NONLINEAR MODELS (MCS-8001560)*; 12 MONTHS $13,429

FRANKS, JOHN M, WILLIAMS, ROBERT F, AND ROBINSON, R C; *DIFFERENTIABLE DYNAMICAL SYSTEMS (MCS-8002177)*; 12 MONTHS $48,332

LEVI, MARK; *ORDINARY DIFFERENTIAL EQUATIONS AND DYNAMICAL SYSTEMS (MCS-8002195)*; 24 MONTHS $16,092

GASPER, GEORGE; *SPECIAL FUNCTIONS (MCS-8001507)*; 24 MONTHS $25,458

OLMSTEAD, W EDWARD; *DECAY AND STABILITY IN NONLINEAR DIFFUSION PROBLEMS (MCS-8002759)*; 12 MONTHS $13,414

YOUNG, LAI-SANG; *DIFFERENTIABLE DYNAMICAL SYSTEMS (MCS-8002781)*; 12 MONTHS $7,711

BELLOW, ALEXANDRA, AND MARCUS, MICHAEL B; *TOPICS IN ANALYSIS AND PROBABILITY (MCS-8002793)*; 12 MONTHS $31,043

TURKINGTON, BRUCE E; *NONLINEAR FREE BOUNDARY PROBLEMS (MCS-8002927)*; 12 MONTHS $8,145

SAARI, DONALD G; *N-PARTICLE SYSTEMS (MCS-8003085)*; 12 MONTHS $13,571

SAIGAL, ROMESH; *A STUDY OF PROCEDURES FOR FINDING FIXED POINTS AND SOLVING EQUATIONS (MCS-8005154)*; 24 MONTHS $29,158

REISS, EDWARD L; *NUMERICAL STUDIES OF NONLINEAR ELASTIC AND HYDRODYNAMIC STABILITY PROBLEMS (MCS-8016138*)*; 12 MONTHS $11,700

UNIVERSITY OF CHICAGO

LASHOF, RICHARD K; *INVARIANTS OF SMOOTH ACTIONS (MCS-7701623 A04)*; $9,000

GARCIA, CRISOSTOM B, AND ZANGWILL, WILLARD I; *GLOBAL CALCULATION OF SOLUTIONS, FIXED POINTS AND EQUILIBRIA (MCS-7715509 A01)*; 24 MONTHS $18,000

BAILY, WALTER L; *AUTOMORPHIC FUNCTIONS, COMPLEX MULTIPLICATION AND NUMBER THEORY (MCS-7901151 A01)*; 12 MONTHS $17,000

HERSTEIN, ISRAEL N; *RING THEORY (MCS-7901153 A02)*; 12 MONTHS $17,500

DOUGLAS, JIM; *NUMERICAL ANALYSIS AND PARTIAL DIFFERENTIAL EQUATIONS (MCS-7902561 A02*)*; 12 MONTHS $37,383

KAPLANSKY, IRVING; *GROUPS, RINGS, AND HOMOLOGICAL ALGEBRA (MCS-7904469 A01)*; 12 MONTHS $85,900

KAPLANSKY, IRVING; *GROUPS, RINGS, AND HOMOLOGICAL ALGEBRA (MCS-7904469 A02)*; $9,000

LEBOVITZ, NORMAN R; *BIFURCATION AND STABILITY THEORY AND APPLICATIONS IN THE THEORY OF SELF GRAVITATING MASSES (MCS-7910319 A01)*; 12 MONTHS $23,959

REID, WILLIAM H; *ASYMPTOTIC AND NUMERICAL METHODS IN FLUID MECHANICS (MCS-8001576)*; 12 MONTHS $27,400

BAHADUR, RAGHU R; *MATHEMATICAL STATISTICS AND PROBABILITY (MCS-8002217)*; 12 MONTHS $78,403

BROWDER, FELIX E; *PARTIAL DIFFERENTIAL EQUATIONS AND NONLINEAR FUNCTIONAL ANALYSIS (MCS-8002306)*; 12 MONTHS $29,688

NARASIMHAN, RAGHAVAN; *THE LEVI PROBLEM AND THE DEDEKIND ZETA FUNCTION (MCS-8002323)*; 12 MONTHS $15,275

BONA, JERRY L; *MATHEMATICAL ANALYSIS OF FLUID MOTION (MCS-8002327)*; 24 MONTHS $46,131

SAMMON, PETER H; *NUMERICAL APPROXIMATIONS FOR PARTIAL DIFFERENTIAL EQUATIONS (MCS-8002483)*; 12 MONTHS $8,149

LASHOF, RICHARD K; *GEOMETRIC TOPOLOGY, ALGEBRAIC TOPOLOGY AND HOMOLOGICAL ALGEBRA (MCS-8002730)*; 12 MONTHS $120,000

KOLAITIS, PHOKION G; *GENERALIZED RECURSION THEORY (MCS-8002763)*; 24 MONTHS $16,500

ZYGMUND, ANTONI, AND CALDERON, ALBERTO P; *MATHEMATICAL ANALYSIS (MCS-8002908)*; 12 MONTHS $54,874

DUPONT, TODD F; *PIPELINE FLOW MODELS AND NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS (MCS-8002979)*; 24 MONTHS $26,500

KUMAR, N M; *SET THEORETIC COMPLETE INTERSECTIONS OF CURVES IN AFFINE SPACES (MCS-8003121)*; 12 MONTHS $7,400

SALLY, PAUL J; *GROUP REPRESENTATIONS, HARMONIC ANALYSIS AND ERGODIC THEORY (MCS-8004026)*; 12 MONTHS $38,566

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

WAGREICH, PHILIP; *ALGEBRAIC GEOMETRY, TRANSFORMATION GROUPS AND AUTOMORPHIC FORMS (MCS-7901457 A01)*; 12 MONTHS $11,000

MASUR, HOWARD; *PROBLEMS IN THE DEFORMATION THEORY OF RIEMANN SURFACES (MCS-7902118 A01)*; 24 MONTHS $17,500

UHLENBECK, KAREN K; *GEOMETRY AND PARTIAL DIFFERENTIAL EQUATIONS (MCS-7902682 A01)*; 24 MONTHS $23,477

ATKIN, ARTHUR O; *MODULAR FORMS (MCS-7902818 A02)*; 12 MONTHS $19,000

MILLER, DOUGLAS E; *MATHEMATICAL LOGIC AND GENERAL TOPOLOGY (MCS-7902845 A01)*; 24 MONTHS $17,444

WOOD, JOHN W; *GEOMETRY AND TOPOLOGY (MCS-7901084 A01)*; 12 MONTHS $27,638

TWERSKY, VICTOR; *MANY-BODY THEORY, CONTINUUM MECHANICS, AND MATHEMATICAL BIO-PHYSICS (MCS-7901718 A01)*; 12 MONTHS $75,875

RONAN, MARK; *GENERALIZATIONS OF BUILDINGS AND THEIR GROUPS (MCS-7902748 A01)*; 12 MONTHS $6,600

RADFORD, DAVID E; *FUNDAMENTAL PROBLEMS IN THE STRUCTURE OF HOPF ALGEBRAS (MCS-7902749 A01)*; 12 MONTHS $9,300

ITO, NOBORU, AND FONG, PAUL; *ON FINITE GROUPS AND DESIGNS (MCS-7902750 A01)*; 12 MONTHS $49,000

CALDERON, CALIXTO P; *HARMONIC ANALYSIS AND INTERPOLATION THEORY (MCS-7904686 A01)*; 24 MONTHS $21,118

PLESS, VERA; *COMPUTER ALGORITHMS IN FINITE GROUPS AND COMBINATORIAL STRUCTURES (MCS-7924986*)*; 12 MONTHS $15,000

UNIVERSITY OF ILLINOIS AT URBANA

PALMORE, JULIAN I; *RELATIVE EQUILIBRIA OF N-BODY PROBLEMS (MCS-7900195 A01)*; 24 MONTHS $19,734

RAO, R RANGA; *REPRESENTATIONS OF SEMI-SIMPLE LIE GROUPS (MCS-7903983 A02)*; 12 MONTHS $12,600

TONDEUR, PHILIPPE, AND KAMBER, FRANZ W; *DIFFERENTIAL GEOMETRY (MCS-7900256 A01)*; 12 MONTHS $29,000

CHEN, K T; *ALGEBRAIC TOPOLOGY AND DIFFERENTIAL FORMS (MCS-7900321 A01)*; 12 MONTHS $18,000

LOEB, PETER A, AND HELMS, LESTER L; *APPLICATIONS OF NONSTANDARD ANALYSIS TO POTENTIAL THEORY, INTERACTING PARTICLES, AND RELATED TOPICS (MCS-7900666 A01)*; 24 MONTHS $26,900

HAKEN, WOLFGANG, AND APPEL, KENNETH I; *THREE DIMENSIONAL TOPOLOGY AND COMBINATORIAL GROUP THEORY (MCS-7902512 A01)*; 12 MONTHS $31,500

WIJSMAN, ROBERT A, AND BURKHOLDER, DONALD L; *STATISTICS: INFERENCE, INVARIANCE, AND MARTINGALES (MCS-7902581 A01)*; 12 MONTHS $71,176

BERKSON, EARL R; *FUNCTIONAL ANALYSIS AND OPERATOR THEORY (MCS-7903093 A01)*; 12 MONTHS $24,840

WALTER, JOHN F, AND SUZUKI, MICHIO; *GROUP THEORY (MCS-7903125 A01)*; 12 MONTHS $36,000

RUBEL, LEE A; *FACTORIZATION IN SPACES OF ANALYTIC FUNCTIONS (MCS-7925455)*; 12 MONTHS $17,323

ABIKOFF, WILLIAM, *KLEINIAN GROUPS (MCS-7926415)*; 24 MONTHS $17,174

REZNICK, BRUCE A; *POLYNOMIAL INEQUALITIES* (MCS-8001542); 24 MONTHS $17,400

TING, T W; *APPLIED MATHEMATICS: PROBLEMS IN CONTINUUM MECHANICS AND CONTINUUM GAS DYNAMICS* (MCS-8001845); 12 MONTHS $23,500

MORLEY, THOMAS D; *OPERATOR FUNCTIONS INDUCED BY NETWORK CONNECTIONS* (MCS-8001906); 24 MONTHS $18,087

BANK, STEVEN B, AND MILES, JOSEPH B; *DIFFERENTIAL EQUATIONS IN THE COMPLEX DOMAIN AND NEVANLINNA THEORY* (MCS-8002269); 12 MONTHS $46,000

REINER, IRVING; *ALGEBRA AND ALGEBRAIC NUMBER THEORY* (MCS-8002807); 12 MONTHS $100,000

BLUMENTHAL, SAUL; *ASYMPTOTIC EXPANSIONS AND ROBUST ESTIMATION* (MCS-8002340); 12 MONTHS $26,635

KNIGHT, FRANK B; *MARKOV PROCESSES* (MCS-8002660); 12 MONTHS $25,500

PHILIPP, WALTER V; *PROBABILITY THEORY* (MCS-8002796); 12 MONTHS $16,650

BOONE, WILLIAM W, AND JOCKUSCH, CARL G; *LOGIC AND GROUP THEORY* (MCS-8001251); 12 MONTHS $58,850

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

GLASSEY, ROBERT T; *NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS IN MATHEMATICAL PHYSICS* (MCS-7701340 A02); $9,000

NEWMAN, CHARLES M; *PHASE TRANSITIONS: CRITICAL BEHAVIOR AND METASTABILITY* (MCS-7720684 A02); 12 MONTHS $10,692

CONWAY, JOHN B; *SUBNORMAL OPERATORS AND RELATED TOPICS* (MCS-7728396 A01); 24 MONTHS $30,221

MCCRACKEN, MARJORIE F; *NUMERICAL METHODS FOR SOLVING THE NAVIER-STOKES EQUATIONS* (MCS-7800984 A02); 24 MONTHS $29,769

STEGENGA, DAVID A; *HARDY SPACES AND DUALITY* (MCS-7801936 A01); 24 MONTHS $24,867

HALMOS, PAUL R; *INTEGRAL OPERATORS* (MCS-7803051 A02); 12 MONTHS $23,570

CHALLIFOUR, JOHN L; *STUDIES IN EUCLIDEAN GAUGE THEORY* (MCS-7803285 A01); 24 MONTHS $22,092

GOODMAN, VICTOR W; *PROBLEMS OF EXIT FOR SUMS OF INDEPENDENT RANDOM VARIABLES AND CERTAIN DIFFUSION PROCESSES* (MCS-7903038 A01); 24 MONTHS $17,397

HAILE, DARRELL E; *SOME PROBLEMS IN THE THEORY OF BRAUER GROUPS* (MCS-7904165 A01); 24 MONTHS $14,900

SHAKED, MOSHE; *MULTIVARIATE N B U DISTRIBUTIONS AND CONCEPTS OF NEGATIVE DEPENDENCE* (MCS-7927150); 24 MONTHS $16,590

STAMPFLI, JOSEPH G; *LOCAL SPECTRAL THEORY, PRINCIPAL FUNCTIONS, QUASI - SIMILARITY AND SIMILARITY* (MCS-8001592); 12 MONTHS $13,169

SCHOBER, GLENN; *GEOMETRIC THEORY OF FUNCTIONS* (MCS-8002400); 24 MONTHS $22,097

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

KAMINKER, JEROME A; *K-THEORY, C*-ALGEBRAS AND INDEX THEORY FOR ELLIPTIC OPERATORS* (MCS-7721019 A01); 12 MONTHS $7,790

PURDUE UNIVERSITY-CALUMET REGIONAL CAMPUS

CHIHARA, T S; *STUDIES OF THE SPECTRAL PROPERTIES OF ORTHOGONAL POLYNOMIALS* (MCS-8001792); 12 MONTHS $9,799

PURDUE UNIVERSITY

BROWN, LAWRENCE G; *C*-ALGEBRAS AND OPERATOR THEORY* (MCS-7800992 A02); 12 MONTHS $15,066

BERGER, JAMES O; *INVESTIGATIONS IN DECISION THEORY* (MCS-7802300 A03); 12 MONTHS $37,242

SCHULTZ, REINHARD; *MANIFOLDS WITH GROUP ACTIONS AND HOMOTOPY THEORY* (MCS-7802913 A02); 12 MONTHS $13,013

WEITSMAN, ALLEN; *PROBLEMS IN COMPLEX ANALYSIS* (MCS-7802917 A01); 24 MONTHS $28,771

BAOUENDI, MOHAMED S; *THEORY OF PARTIAL DIFFERENTIAL EQUATIONS* (MCS-7804006 A02); 12 MONTHS $17,792

WANG, JOHN S P; *ON S-SUBGROUPS OF LOCALLY COMPACT GROUPS* (MCS-7900695 A01); 12 MONTHS $13,263

STUDDEN, WILLIAM J; *OPTIMAL EXPERIMENTAL DESIGNS* (MCS-7901707 A01); 12 MONTHS $29,632

MOH, T T; *PROBLEMS OF ALGEBRAIC CURVES* (MCS-7903174 A01); 24 MONTHS $26,200

LIPMAN, JOSEPH; *LOCAL THEORY OF RESIDUES* (MCS-7903444 A01); 12 MONTHS $15,200

SAWYER, STANLEY A; *CONVERGENCE AND STABILITY RESULTS FOR A GENERALIZED FISHER'S EQUATION, AND NON-STANDARD STEPPING STONE MODELS* (MCS-7904472 A01); 12 MONTHS $13,035

GLESER, LEON J, AND MOORE, DAVID S; *LARGE SAMPLE STATISTICAL THEORY, WITH EMPHASIS ON TESTS OF GOODNESS-OF-FIT* (MCS-7905815 A01); 12 MONTHS $30,700

DAVIS, BURGESS J; *APPLICATIONS OF PROBABILITY TO ANALYSIS* (MCS-7906632 A01); 12 MONTHS $14,716

PUTNAM, CALVIN R; *AN INVESTIGATION OF HYPONORMAL OPERATIONS AND THEIR SPECTRA* (MCS-7924029); 12 MONTHS $17,554

DONNELLY, HAROLD; *SOME PROBLEMS INVOLVING SPECTRAL INVARIANTS* (MCS-7924350*); 24 MONTHS $22,781

DRASIN, DAVID; *INTERNATIONAL CONFERENCE ON CLASSICAL COMPLEX ANALYSIS; WEST LAFAYETTE, INDIANA, MARCH 20-23, 1980* (MCS-7925441); 12 MONTHS $10,000

RICE, JOHN R; *NONLINEAR APPROXIMATION* (MCS-7926390); 12 MONTHS $20,000

BERKOVITZ, LEONARD D; *DIFFERENTIAL GAMES AND OPTIMAL CONTROL* (MCS-7927137*); 12 MONTHS $9,139

GAUTSCHI, WALTER; *GAUSS TYPE QUADRATURE RULES* (MCS-7927158*); 24 MONTHS $10,000

GOFFMAN, CASPER; *PROBLEMS IN REAL AND HARMONIC ANALYSIS* (MCS-8001565); 12 MONTHS $17,121

HEINZER, WILLIAM J; *GENERALIZATIONS OF LUROTH'S THEOREM, SUBRINGS OF POLYNOMIAL RINGS, AND SOME TOPICS IN COMMUTATIVE RING THEORY* (MCS-8002301); 12 MONTHS $13,600

CAMPBELL, RUSSELL; *TEMPORAL SELECTION VARIATION AND POLYMORPHISM* (MCS-8002227); 12 MONTHS $7,386

GOEL, PREM K; *HIERARCHICAL MODELS AND CHARACTERIZATION PROBLEMS IN BAYESIAN DECISION MAKING* (MCS-8002136); 24 MONTHS $21,771

ALIKAKOS, NICHOLAS; *REACTION-DIFFUSION EQUATIONS* (MCS-8002540); 12 MONTHS $7,597

DRASIN, DAVID, AND BROWN, JOHNNY; *PROBLEMS IN COMPLEX ANALYSIS* (MCS-8002703); 12 MONTHS $21,505

ABHYANKAR, SHREERAM; *ALGEBRA AND ALGEBRAIC GEOMETRY* (MCS-8002900); 12 MONTHS $17,500

BRANSON, THOMAS P; *YANG-MILLS EQUATIONS AND OTHER NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS* (MCS-8005245); 24 MONTHS $16,075

BECKER, JAMES C; *HOMOTOPY THEORY* (MCS-8005783); 12 MONTHS $13,815

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

HOWLAND, ROBERT A; *IMPLEMENTATION AND APPLICATION OF A TECHNIQUE FOR THE QUADRATIC ANALYTICAL SOLUTION OF HAMILTONIAN SYSTEMS* (MCS-8003592); 24 MONTHS $24,382

UNIVERSITY OF NOTRE DAME

TAYLOR, LAURENCE R; *ALGEBRAIC AND GEOMETRIC TOPOLOGY* (MCS-7903143 A01); 12 MONTHS $29,866

HAHN, ALEXANDER J; *GROUPS OF LIE TYPE AND CLASSICAL GROUPS* (MCS-8003100); 24 MONTHS $18,200

STOLL, WILHELM; *THEORY OF SEVERAL COMPLEX VARIABLES* (MCS-8003257); 12 MONTHS $26,784

NAGANO, TADASHI, AND SMYTH, BRIAN; *LIE GROUPS AND DIFFERENTIAL GEOMETRY* (MCS-8003573); 24 MONTHS $97,500

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

GHOSH, MALAY, AND MEEDEN, GLEN; *ADMISSIBILITY IN MULTIPARAMETER ESTIMATION AND IN FINITE POPULATION SAMPLING* (MCS-8005485); 24 MONTHS $30,779

UNIVERSITY OF IOWA

WALTMAN, PAUL; *A THRESHOLD MODEL OF ANTIGEN ANTIBODY DYNAMICS II* (MCS-7901069 A01); 12 MONTHS $15,790

MUHLY, PAUL S; *ERGODIC AND FUNCTION THEORETIC METHODS IN THE ANALYSIS OF OPERATOR ALGEBRAS* (MCS-7902547 A01); 12 MONTHS $11,519

JOHNSON, NORMAN L; *COLLINEATION GROUPS OF FINITE TRANSLATION PLANES* (MCS-7905797 A01); 24 MONTHS $20,563

KIRK, WILLIAM A; *FIXED POINT THEORY IN FUNCTIONAL ANALYSIS* (MCS-8001605); 24 MONTHS $27,610

ATKINSON, KENDALL E; *NUMERICAL SOLUTION OF INTEGRAL EQUATIONS* (MCS-8002422); 24 MONTHS $27,979

OLIKER, VLADIMIR I; *GLOBAL DIFFERENTIAL GEOMETRY AND PARTIAL DIFFERENTIAL EQUATIONS* (MCS-8002779); 24 MONTHS $19,139

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

BUNCE, JOHN W; *OPERATORS AND *-ALGEBRAS OF OPERATORS ON HILBERT SPACE* (MCS-8002138); 24 MONTHS $67,718

SHAFER, GLENN R; *STUDIES IN PROBABLE AND STATISTICAL INFERENCE* (MCS-8002213*); 36 MONTHS $17,344

KENTUCKY

UNIVERSITY OF KENTUCKY

FREEMAN, MICHAEL B; *FULLY INTEGRABLE PFAFFIAN SYSTEMS* (MCS-7802151 A01); 24 MONTHS $22,053

VAN WINTER, CLASINE; *SCATTERING AND THE N-BODY PROBLEM IN QUANTUM MECHANICS* (MCS-7802661 A02); 12 MONTHS $12,412

CAREY, RICHARD W; *PRINCIPAL FUNCTIONS IN OPERATOR THEORY* (MCS-7902693 A01); 24 MONTHS $17,900

COHEN, FREDERICK R; *ALGEBRAIC TOPOLOGY: ITERATED LOOP SPACES AND THEIR APPLICATIONS* (MCS-8001699); 24 MONTHS $22,086

JENSEN, ROBERT R; *REGULARITY OF VARIATIONAL INEQUALITIES, QUASI-VARIATIONAL INEQUALITIES AND RELATED PROBLEMS* (MCS-8001884); 24 MONTHS $15,092

SATHAYE, AVINASH; *CONDUCTOR FORMULAS AND VARIOUS QUESTIONS IN POLYNOMIAL/AFFINE RINGS* (MCS-8002803); 24 MONTHS $18,000

FAIRWEATHER, GRAEME; *BOUNDARY METHODS FOR ELLIPTIC BOUNDARY VALUE PROBLEMS* (MCS-8000804); 12 MONTHS $11,241

HARRIS, LAWRENCE A; *INFINITE DIMENSIONAL HOLOMORPHY* (MCS-8002827); 12 MONTHS $9,714

KUBOTA, K K; *ALGEBRAIC INDEPENDENCE OF FUNCTIONS AND THEIR VALUES* (MCS-8000536); 24 MONTHS $23,200

ADAMS, DAVID R; *SOME QUESTIONS IN POTENTIAL THEORY AND PARTIAL DIFFERENTIAL EQUATIONS RELATED TO THE LP THEORY OF CAPACITIES* (MCS-8000140); 12 MONTHS $9,180

CHAPMAN, THOMAS A, AND FERRY, STEVEN C; *TOPOLOGY OF FINITE AND INFINITE DIMENSIONAL MANIFOLDS* (MCS-8002349); 12 MONTHS $27,840

BRENNAN, JAMES E; *APPROXIMATION IN THE MEAN AND RELATED PROBLEMS* (MCS-8002855); 24 MONTHS $18,250

LAWRENCE, JAMES; *AFFINE SECTIONS OF CONVEX POLYTOPES* (MCS-8002875); 24 MONTHS $15,636

GILES, FREDERICK R; *INTEGRALITY AND COMBINATORIAL OPTIMIZATION* (MCS-8002987*); 12 MONTHS $3,958

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

MCGEHEE, O CARRUTH; *COMMUTATIVE HARMONIC ANALYSIS* (MCS-7801424 A02); 12 MONTHS $11,507

KUO, H; *INTEGRATION AND STOCHASTIC ANALYSIS IN INFINITE DIMENSIONAL SPACES* (MCS-7801438 A01); 12 MONTHS $9,178

RETHERFORD, JAMES R; *APPROXIMATION NUMBERS OF OPERATORS ON BANACH SPACES* (MCS-8001580); 12 MONTHS $13,296

ALTMAN, M; *CONTRACTORS AND CONTRACTOR DIRECTIONS, THEORY AND APPLICATIONS* (MCS-8001610); 12 MONTHS $13,788

HOFFMAN, JEROME W; *HODGE THEORY OF SINGULAR CURVES* (MCS-8002231); 24 MONTHS $15,700

CHEN, NENG H; *CONSTRUCTION OF NONPARAMETRIC EFFICIENT AND ROBUST ESTIMATORS FOR FINITE DIMENSIONAL PARAMETERS* (MCS-8002255); 12 MONTHS $7,086

TULANE UNIVERSITY

FUCHS, LASZLO; *ABELIAN GROUPS* (MCS-7801437 A02); 12 MONTHS $18,500

KALKA, MORRIS; *RESEARCH PROJECT IN ANALYSIS* (MCS-8001531); 12 MONTHS $8,225

CONWAY, EDWARD D; *REACTION DIFFUSION EQUATIONS* (MCS-8001895); 24 MONTHS $26,524

KNILL, RONALD J; *REGIONAL CONFERENCE ON HARMONIC MAPS, NEW ORLEANS, LOUISIANA, DECEMBER 15-19, 1980* (MCS-8006172); 6 MONTHS $17,800

MAINE

BOWDOIN COLLEGE

ABIKOFF, WILLIAM, AND WARD, JAMES E; *1980 SUMMER WORKSHOP ON THE GEOMETRY & TOPOLOGY OF 3- AND 4-DIMENSIONAL MANIFOLDS & KLEINIAN GROUPS, JULY 7 TO JULY 25, 1980, BRUNSWICK, MAINE* (MCS-7927118); 6 MONTHS $25,550

MARYLAND

GOUCHER COLLEGE

VAN WESEP, ROBERT A; *SET THEORY* (MCS-8003579); 12 MONTHS $9,350

INDIVIDUAL AWARD

GERBER, MARLIES; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP* (MCS-7919149 A01); 12 MONTHS $17,000

JOHNS HOPKINS UNIVERSITY

IGUSA, JUN-ICHI; *THEORY OF HIGHER DEGREE FORMS* (MCS-7700837 A03); 12 MONTHS $19,000

WILSON, W STEPHEN; *UNSTABLE COMPLEX COBORDISM OPERATIONS AND HOPF RINGS* (MCS-7730611 A01); 24 MONTHS $31,431

TRUESDELL, CLIFFORD A; *RATIONAL THERMOMECHANICS OF MATERIALS* (MCS-7803096 A02*); 12 MONTHS $36,336

ONO, TAKASHI; *ARITHMETIC PROPERTIES OF ALGEBRAIC VARIETIES* (MCS-7902909 A02); 12 MONTHS $17,500

KEMPF, GEORGE R; *ALGEBRAIC GEOMETRY* (MCS-7900965 A01); 12 MONTHS $13,000

SHALIKA, JOSEPH A; *REPRESENTATION THEORY AND AUTOMORPHIC FORMS ON THE GENERAL LINEAR GROUP* (MCS-7913799); 12 MONTHS $13,500

MENIKOFF, ARTHUR; *RESEARCH ON LINEAR PARTIAL DIFFERENTIAL EQUATIONS* (MCS-7941068); 24 MONTHS $20,396

HARRELL, EVANS M; *SCHRODINGER OPERATORS WITH SINGULAR PERTURBATIONS* (MCS-7926408); 12 MONTHS $9,100

KARR, ALAN F; *STUDIES IN STOCHASTIC PROCESSES* (MCS-8001540); 12 MONTHS $11,170

SHALIKA, JOSEPH A; *SUPPORT OF A CONFERENCE ON DIFFERENTIAL EQUATIONS IN ANALYSIS AND GEOMETRY, APRIL 24-26, 1980* (MCS-8005123); 12 MONTHS $5,000

JOHNS HOPKINS UNIVERSITY-SCHOOL OF HYGIENE & PUBLIC HEALTH

ROYALL, RICHARD M; *FINITE POPULATION SAMPLING THEORY UNDER SUPERPOPULATION MODELS* (MCS-7909471 A02); 12 MONTHS $27,992

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

PITTENGER, ARTHUR O; *TOPICS IN MARKOV PROCESSES* (MCS-8001846); 12 MONTHS $12,200

UNIVERSITY OF MARYLAND, COLLEGE PARK-AGRICULTURAL EXPERIMENT STATION

LIPSMAN, RONALD L; *ORBIT THEORY AND HARMONIC ANALYSIS ON LIE GROUPS WITH CO-COMPACT NILRADICAL* (MCS-7927576 A01); 13 MONTHS $14,245

UNIVERSITY OF MARYLAND, COLLEGE PARK

ZALCMAN, LAWRENCE, AND BERENSTEIN, CARLOS; *COMPLEX ANALYSIS AND DIFFERENTIAL EQUATIONS* (MCS-7908911 A02); 12 MONTHS $24,275

ZALCMAN, LAWRENCE, AND BERENSTEIN, CARLOS; *COMPLEX ANALYSIS AND DIFFERENTIAL EQUATIONS* (MCS-7908911 A03); $9,000

HERB, REBECCA A; *CHARACTER THEORY AND FOURIER INVERSION ON SEMISIMPLE LIE GROUPS* (MCS-7901413 A01); 24 MONTHS $17,047

OLVER, FRANK W; *ASYMPTOTIC APPROXIMATIONS* (MCS-7902111 A02); 12 MONTHS $13,969

LIU, TAI-PING; *GENERAL SYSTEM OF CONSERVATION LAWS* (MCS-7902302 A02); 12 MONTHS $10,403

KUDLA, STEPHEN S; *THE WEIL REPRESENTATION, HARMONIC FORMS, AND PERIODS* (MCS-7902817 A01); 24 MONTHS $17,100

OSBORN, JOHN E; *NUMERICAL PROBLEMS FOR DIFFERENTIAL EQUATIONS* (MCS-7902851 A02); 12 MONTHS $13,550

DOUGLIS, AVRON; *LAYERING METHOD FOR THE NAVIER-STOKES AND OTHER EQUATIONS* (MCS-7903978 A02); 12 MONTHS $14,340

YORKE, JAMES A; *QUALITATIVE BEHAVIOR FOR GENERALIZED DYNAMICAL PROCESSES* (MCS-7818221 A01); 12 MONTHS $25,237

GOLDSTEIN, LARRY J, AND RAZAR, MICHAEL; *THEORY OF NUMBERS* (MCS-7902107 A01); 12 MONTHS $36,800

GOLDSTEIN, LARRY J, AND RAZAR, MICHAEL; *THEORY OF NUMBERS* (MCS-7902107 A02); $9,100

KATOK, ANATOLE; *TOPICS IN ERGODIC THEORY AND DIFFERENTIAL DYNAMICS* (MCS-7903046 A01); 12 MONTHS $17,611

KATOK, ANATOLE; *TOPICS IN ERGODIC THEORY AND DIFFERENTIAL DYNAMICS* (MCS-7903046 A02); $9,203

CHANG, SUN YUNG A; *FUNCTIONS OF BOUNDED MEAN OSCILLATION ON THE POLYDISC* (MCS-7903119 A01); $9,000

ALEXANDER, JAMES C; *INVESTIGATIONS ON BIFURCATION THEORY AND NUMERICAL CONTINUATION METHOD* (MCS-7904482 A01); 24 MONTHS $23,422

KIRWAN, WILLIAM E; *SPECIAL YEAR IN ERGODIC THEORY AND DYNAMICAL SYSTEMS* (MCS-7908401); 12 MONTHS $57,779

JOHNSON, CHARLES R; *TOPICS IN MATRIX THEORY AND APPLICATIONS* (MCS-8001611); 24 MONTHS $26,915

ANTMAN, STUART S; *NONLINEAR PROBLEMS OF SOLID MECHANICS* (MCS-8001844*); 12 MONTHS $8,319

WOLPERT, SCOTT; *CONFORMAL GEOMETRY OF RIEMANN SURFACES* (MCS-8001884); 24 MONTHS $17,143

KING, HENRY C; *TOPOLOGY OF REAL ALGEBRAIC SETS* (MCS-8001899); 24 MONTHS $16,491

COHEN, JOEL M; *LOW DIMENSIONAL COMPLEXES AND C* ALGEBRAS OF GROUPS* (MCS-8002218); 12 MONTHS $11,523

HUMMEL, JAMES A, AND KIRWAN, WILLIAM E; *GEOMETRIC FUNCTION THEORY* (MCS-8006490); 12 MONTHS $29,544

MASSACHUSETTS

AMHERST COLLEGE

COX, DAVID A; *ELLIPTIC SURFACES OVER CP1* (MCS-8000170); 24 MONTHS $19,000

BOSTON UNIVERSITY

GROSSBERG, STEPHEN; *DECISION MAKING AND INFORMATION PROCESSING IN REAL-TIME NETWORK MODELS* (IST-8000257*); 36 MONTHS $25,000

KON, MARK A; *PROBABILISTIC RESULTS IN MATHEMATICAL QUANTUM PHYSICS* (MCS-8001407); 24 MONTHS $13,923

BRANDEIS UNIVERSITY

BROWN, EDGAR H; *ALGEBRAIC TOPOLOGY* (MCS-7901919 A01); 12 MONTHS $61,536

PALAIS, RICHARD S; *GLOBAL ANALYSIS* (MCS-7901171 A02); 12 MONTHS $40,500

BUCHSBAUM, DAVID A; *SCHUR FUNCTORS AND DETERMINANTAL VARIETIES* (MCS-7914790); 6 MONTHS $9,000

BECKER, JOSEPH A; *PROBLEMS IN SEVERAL COMPLEX VARIABLES AND ALGEBRAIC GEOMETRY AND LOGIC* (MCS-8002789); 12 MONTHS $9,400

LEVINE, HAROLD I; *ANALYSIS OF MAPPINGS AND OPERATORS* (MCS-8002026); 24 MONTHS $28,252

MATSUSAKA, TERUHISA; *ALGEBRA AND ALGEBRAIC GEOMETRY* (MCS-8002118); 12 MONTHS $80,300

CLARK UNIVERSITY

SRINIVASAN, BHAMA; *PROBLEMS ON REPRESENTATIONS OF GROUPS OF LIE TYPE* (MCS-7902184 A01); 24 MONTHS $20,700

KENNISON, JOHN F; *PROFINITE REPRESENTATIONS* (MCS-8002160); 24 MONTHS $23,700

CLINE, EDWARD; *COHOMOLOGY AND MODULAR REPRESENTATIONS OF GROUPS* (MCS-8000573); 12 MONTHS $9,000

HARVARD UNIVERSITY

TATE, JOHN T, HIRONAKA, HEISUKE, AND MUMFORD, DAVID, *ALGEBRA, NUMBER THEORY, ALGEBRAIC GEOMETRY* (MCS-7715524) A00; 12 MONTHS $147,000

DEMPSTER, ARTHUR P, *DATA ANALYSIS AND STATISTICAL INFERENCE* (MCS-7727119 A02; 12 MONTHS $63,000

GRIFFITHS, PHILLIP A, AND AHLFORS, LARS V, *COMPLEX ANALYSIS AND ALGEBRAIC GEOMETRY* (MCS-7807149 A02; 12 MONTHS $41,300

HUBER, PETER J, *INTERACTIVE GRAPHICAL ANALYSIS OF MULTIDIMENSIONAL DATA* (MCS-7804091 A01*; 12 MONTHS $12,500

ICHOMID, WILFRIED, *STUDIES IN REPRESENTATION THEORY* (MCS-7911190 A01; 12 MONTHS $10,200

JAFFE, ARTHUR M, *MATHEMATICAL PHYSICS* (8 MY 7910911 A01*; 12 MONTHS $56,000

ANDERSON, DONALD G, *STUDIES IN APPLIED MATHEMATICS* (MCS-8003463); 12 MONTHS $39,695

MAZUR, BARRY, *TOPOLOGY AND GEOMETRY* (MCS-8004104); 12 MONTHS $95,000

PATTERSON, SAMUEL J, *METAPLECTIC FORMS* (MCS-8012715); 12 MONTHS $8,000

HARVARD UNIVERSITY-SCHOOL OF PUBLIC HEALTH

LEVINS, RICHARD, *QUALITATIVE ANALYSIS OF PARTIALLY SPECIFIED SYSTEMS* (MCS-8010005*); 12 MONTHS $20,000

INDIVIDUAL AWARD

SMITH, ROY C, *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP* (MCS-8017151); 12 MONTHS $17,000

SHEARER, JAMES B, *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP* (MCS-8017159); 12 MONTHS $17,000

CHINBURG, TED, *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP* (MCS-8017198); 12 MONTHS $17,000

IRVING, RONALD S, *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP* (MCS-8017204); 12 MONTHS $17,000

BELL, STEVEN R, *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP* (MCS-8017205); 12 MONTHS $17,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PETERSON, FRANKLIN P, *ALGEBRAIC TOPOLOGY* (MCS-7901103 A02); 12 MONTHS $56,000

PETERSON, FRANKLIN P, *ALGEBRAIC TOPOLOGY* (MCS-7901103 A03); $7,000

ROTA, GIAN-CARL O, *COMBINATORIAL THEORY* (MCS-7901761 A02); 12 MONTHS $37,000

SEGAL, IRVING E, *MATHEMATICAL ANALYSIS OF FIELDS AND PARTICLES* (MCS-7901969 A03); $26,000

SEGAL, IRVING E, *MATHEMATICAL ANALYSIS OF FIELDS AND PARTICLES* (MCS-7901969 A04); 12 MONTHS $23,600

SEGAL, IRVING E, *MATHEMATICAL ANALYSIS OF FIELDS AND PARTICLES* (MCS-7901969 A05); $9,500

KOSTANT, BERTRAM, *REPRESENTATION THEORY AND DIFFERENTIAL GEOMETRY* (MCS-7905407 A02); 12 MONTHS $41,900

LIN, CHIA-CHIA, AND TOOMRE, ALAR, *DYNAMICS OF GALAXIES* (MCS-7906888 A02*); 12 MONTHS $43,400

SACKS, GERALD E, *RESEARCH IN LOGIC* (MCS-7907414 A02); 12 MONTHS $32,000

STRANG, WILLIAM G, *MATHEMATICAL AND NUMERICAL PROBLEMS IN NONLINEAR MECHANICS* (MCS-7912083 A01); 12 MONTHS $27,500

GREENSPAN, HARVEY P, *PROBLEMS OF FLUID DYNAMICS AND CELL BIOLOGY* (MCS-7916221 A01); 12 MONTHS $30,000

HELGASON, SIGURDUR, *MATHEMATICAL ANALYSIS* (MCS-7919221 A01); 12 MONTHS $69,567

KLEMA, VIRGINIA, *SUMMER RESEARCH CONFERENCES IN NUMERICAL AND STATISTICAL ANALYSIS* (MCS-7908870 A01*); 12 MONTHS $15,000

DUDLEY, RICHARD M, *PROBABILITY, STATISTICS AND FUNCTIONAL ANALYSIS* (MCS-7908474 A01); 12 MONTHS $32,200

KLEITMAN, DANIEL J, AND UHLMANN, G, *HYPERBOLIC EQUATIONS WITH MULTIPLE CHARACTERISTICS* (MCS-7908135 A01); 12 MONTHS $9,917

KLEIMAN, STEVEN L, *ALGEBRAIC GEOMETRY* (MCS-7909095 A01); 12 MONTHS $20,000

STARK, HAROLD M, *GENERAL CLASS NUMBER PROBLEMS* (MCS-7909450 A01); 12 MONTHS $31,500

PETERSON, DALE H, *MATHEMATICAL ANALYSIS, REPRESENTATION THEORY* (MCS-8000206); 12 MONTHS $9,000

STOB, MICHAEL J, AND KLEITMAN, DANIEL J, *RECURSION THEORY* (MCS-8001927); 24 MONTHS $19,000

SACKS, JONATHAN, *CLOSED MINIMAL SURFACES IN COMPACT RIEMANNIAN MANIFOLDS* (MCS-8001959); 24 MONTHS $20,797

KLEITMAN, DANIEL J, AND IMAI, K, *GENERALIZATION OF HECKE'S CORRESPONDENCE* (MCS-8001906); 24 MONTHS $19,900

SHIFRIN, THEODORE, *INTEGRO-GEOMETRIC INVARIANTS OF COMPLEX SUBMANIFOLDS OF PROJECTIVE SPACES* (MCS-8001949); 12 MONTHS $9,500

CHERNOFF, HERMAN, AND DUMOUCHEL, WILLIAM H, *BASIC RESEARCH IN STATISTICAL THEORY* (MCS-8001947); 12 MONTHS $46,736

VERGNE, MICHELE, *LIE GROUPS REPRESENTATIONS AND APPLICATIONS* (MCS-8003709); 12 MONTHS $17,200

KAC, V, *INFINITE DIMENSIONAL LIE ALGEBRAS AND THEIR APPLICATIONS* (MCS-8005912); 24 MONTHS $29,300

QUILLEN, DANIEL G, *GEOMETRY AND ANALYSIS ON MANIFOLDS* (MCS-8006321); 12 MONTHS $67,900

KLEITMAN, DANIEL J, AND CALLIAS, C J, *EUCLIDEAN YANG-MILLS THEORY* (MCS-8000104); 24 MONTHS $19,940

NORTHEASTERN UNIVERSITY

HAJIAN, ARSHAG B, *ERGODIC THEORY* (MCS-7908917 A02); 12 MONTHS $34,358

SHAH, JAYANT, *STUDYING THE MODULI OF SURFACES* (MCS-7901720 A02); 12 MONTHS $10,500

CARPENTER, GAIL A, *SIGNAL PATTERNS IN NERVE CELLS* (MCS-8004010); 12 MONTHS $10,445

GAFFNEY, TERENCE J, *GEOMETRIC TOPOLOGY* (MCS-8003101); 24 MONTHS $14,992

TUFTS UNIVERSITY

HAHN, MARJORIE G, *THIRD INTERNATIONAL CONFERENCE ON PROBABILITY IN BANACH SPACES, TUFTS UNIVERSITY, AUGUST 6-10, 1979* (MCS-8011998); 6 MONTHS $6,000

CORMACK, ALLAN M, *INVESTIGATION OF SOME GENERALIZED RADON TRANSFORMS* (MCS-8012898); 12 MONTHS $16,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

NORMAN, PETER, *MODULI OF ABELIAN VARIETIES* (MCS-7903109 A01); 24 MONTHS $21,000

CATTANI, EDUARDO H, AND KAPLAN, ARALDO G, *VARIATION OF HODGE STRUCTURES* (MCS-7903099 A01); 12 MONTHS $23,099

FOGARTY, JOHN C, *HILBERT'S 14TH PROBLEM* (MCS-7904471 A01); 12 MONTHS $9,000

KNIGHTLY, GEORGE H, *SOME NONLINEAR MATHEMATICAL PROBLEMS IN MECHANICS* (MCS-7901555 A01); 12 MONTHS $12,612

BERGER, MELVYN S, *NONLINEAR PROBLEMS OF PARTIAL DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS* (MCS-7907297); 12 MONTHS $16,000

ELLIS, RICHARD S, *RESEARCH IN MATHEMATICAL PHYSICS AND PROBABILITY* (MCS-8001149); 12 MONTHS $13,739

GEMAN, DONALD, HOROWITZ, JOSEPH, AND ROSEN, JAY S, *RESEARCH IN STOCHASTIC PROCESSES AND MATHEMATICAL PHYSICS* (MCS-8001946); 12 MONTHS $41,394

HOFFMAN, DAVID A, *GEOMETRY OF THE GAUSS MAP AND STABILITY OF MINIMAL SURFACES* (MCS-8001167); 24 MONTHS $51,129

MICHIGAN

INDIVIDUAL AWARD

TEMPLE, JOHN B, *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP* (MCS-8017157); 12 MONTHS $17,000

REES, HOWARD D, *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP* (MCS-8017701); 12 MONTHS $17,000

MICHIGAN STATE UNIVERSITY

SHAPIRO, JOEL H, *ANALYSIS IN LINEAR METRIC SPACES* (MCS-7901709 A01); 24 MONTHS $19,983

AXLER, SHELDON, *BEST APPROXIMATION TO DOUGLAS ALGEBRAS* (MCS-7901735 A01); 24 MONTHS $19,732

SALEHI, HABIB, *MULTIVARIATE PREDICTION THEORY* (MCS-7913535 A01); 12 MONTHS $11,300

HALL, JONATHAN I, *LOCAL CHARACTERIZATION OF SOME GROUPS, GRAPHS, AND GEOMETRIES* (MCS-7903012 A01); 24 MONTHS $13,300

HICKIN, KENNETH K, *A NEW CONSTRUCTION OF JONSSON GROUPS* (MCS-8001777); 12 MONTHS $6,100

ERICKSON, ROY V, *TAIL BEHAVIOR OF SUMS OF RANDOM VARIABLES WITH APPLICATIONS TO THE STRONG LAW AND THE CENTRAL LIMIT THEOREM* (MCS-8002155); 12 MONTHS $9,003

LI, TIEN-YIEN, *NUMERICAL SOLUTIONS OF SYSTEMS OF NONLINEAR EQUATIONS* (MCS-8002984); 24 MONTHS $10,592

LOCKHART, ROBERT B, *RIESZ POTENTIALS IN WEIGHTED LEBESGUE SPACES* (MCS-8002995); 24 MONTHS $12,130

SYMES, WILLIAM W, *ANALYTICAL AND NUMERICAL METHODS FOR INVERSE SCATTERING PROBLEMS* (MCS-8002994); 24 MONTHS $15,956

GILLILAND, DENNIS C, AND HANNAN, JAMES F, *APPROXIMATION TO BAYES RISK IN SEQUENCES AND SETS OF DIFFUSION PROBLEMS* (MCS-8002001); 24 MONTHS $47,945

UNIVERSITY OF MICHIGAN

STARR, NORMAN, *SEQUENTIAL ALLOCATION WITH CONCOMITANT INFORMATION* (MCS-7903409 A01); 12 MONTHS $29,415

RAYMOND, FRANK, *TOPOLOGY* (MCS-7903170 A01); 12 MONTHS $67,500

MUIRHEAD, ROBB J, *RESEARCH IN MULTIVARIATE ANALYSIS: ASYMPTOTICS AND ROBUSTNESS* (MCS-7910361 A01); 12 MONTHS $11,916

TAYLOR, B A, AND BURNS, DANIEL M, *ANALYTIC AND GEOMETRIC FUNCTION THEORY* (MCS-7908751 A01); 12 MONTHS $25,000

TITUS, CHARLES J, *GEOMETRIC ANALYSIS* (MCS-7908881 A01); 12 MONTHS $36,471

GEHRING, F W, *COMPLEX ANALYSIS* (MCS-7901711 A01); 12 MONTHS $70,499

FARRELL, F T, *ASPHERICAL MANIFOLDS AND DYNAMICAL SYSTEMS* (MCS-7914934); 24 MONTHS $47,937

HOCHSTER, MELVIN, *COMMUTATIVE RINGS AND ALGEBRAIC GEOMETRY* (MCS-8001017); 12 MONTHS $50,500

PIRANIAN, GEORGE, *FATOU POINTS, BLASCHKE PRODUCTS, AND UNIVALENT FUNCTIONS* (MCS-8001899); 12 MONTHS $17,357

CESARI, LAMBERTO, AND SMOLLER, JOEL A; *AERODYNAMIC AND ELECTROMAGNETIC PROPERTIES OF PLASMAS (MCS-8002337)*; 12 MONTHS $19,000

LEWIS, DONALD J; *NUMBER THEORY AND ARITHMETIC GEOMETRY (MCS-8003559)*; 12 MONTHS $52,000

LYNDON, ROGER C; *GROUP THEORY AND COMBINATORICS (MCS-8003027)*; 12 MONTHS $66,100

WINTER, DAVID J; *LIE ALGEBRAS (MCS-8003102)*; 24 MONTHS $26,700

KUPERSHMIDT, BORIS A; *INTEGRABLE TWO-DIMENSIONAL SYSTEMS (MCS-8003104)*; 24 MONTHS $16,241

TAYLOR, B A, AND BURNS, DANIEL M; *LEVI ALGEBRA AND THE TANGENTIAL CAUCHY RIEMANN EQUATIONS (MCS-8003105)*; 12 MONTHS $7,193

SHIELDS, ALLEN L; *CONFERENCE ON CURRENT TRENDS IN NONLINEAR ANALYSIS; ANN ARBOR, MICHIGAN; SEPTEMBER 1980 (MCS-8023151)*; 6 MONTHS $1,500

WAYNE STATE UNIVERSITY

WILKERSON, CLARENCE W; *THE K-THEORY AND COHOMOLOGY OF CLASSIFYING SPACES (MCS-7802284 A01)*; 24 MONTHS $22,686

BROWN, LEON, AND SCHREIBER, BERTRAM M; *STUDIES IN FUNCTIONAL AND HARMONIC ANALYSIS (MCS-8001534)*; 24 MONTHS $55,284

SCHOCHET, CLAUDE; *OPERATOR ALGEBRAS AND K-THEORY (MCS-8001857)*; 24 MONTHS $22,659

MINNESOTA

INDIVIDUAL AWARD

TERMAN, DAVID; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017158)*; 12 MONTHS $17,000

UNIVERSITY OF MINNESOTA

KINDERLEHRER, DAVID; *FREE BOUNDARY PROBLEMS, VARIATIONAL INEQUALITIES, AND RELATED TOPICS (MCS-7722983 A02)*; 12 MONTHS $14,085

EATON, MORRIS L; *MULTIVARIATE STATISTICAL ANALYSIS (MCS-7725112 A02)*; 12 MONTHS $17,367

REICH, EDGAR; *FUNCTIONS OF A COMPLEX VARIABLE AND QUASICONFORMAL MAPPING (MCS-7728149 A02)*; 12 MONTHS $22,462

GOLDMAN, JAY R; *COMBINATORICS AND NUMBER THEORY (MCS-7728421 A01)*; 24 MONTHS $25,100

SUDDERTH, WILLIAM D; *TOPICS IN ABSTRACT GAMBLING THEORY, THE FOUNDATIONS OF STATISTICS, AND FINITELY ADDITIVE PROBABILITY (MCS-7728424 A02)*; 12 MONTHS $13,585

ELLIS, ROBERT, AND KEYNES, HARVEY; *TOPOLOGICAL DYNAMICS AND DYNAMICAL SYSTEMS (MCS-7800403 A02)*; 12 MONTHS $35,760

SATTINGER, DAVID H; *BIFURCATION THEORY AND CRITICAL PHENOMENA (MCS-7800415 A01)*; 36 MONTHS $36,857

MARDEN, ALBERT; *RIEMANN SURFACE THEORY AND DISCRETE GROUPS OF MOBIUS TRANSFORMATIONS (MCS-7800949 A02)*; 12 MONTHS $25,995

MARDEN, ALBERT; *RIEMANN SURFACE THEORY AND DISCRETE GROUPS OF MOBIUS TRANSFORMATIONS (MCS-7800949 A03)*; $6,000

JAIN, NARESH C, OREY, STEVEN, AND PRUITT, WILLIAM; *PROBABILITY THEORY (MCS-7801168 A03)*; 12 MONTHS $113,504

WEINBERGER, HANS F; *ANALYSIS OF DISCRETE TIME MODELS IN MATHEMATICAL BIOLOGY (MCS-7802182 A02)*; 12 MONTHS $20,718

REJTO, PETER; *APPLIED SPECTRAL THEORY (MCS-7802199 A01)*; 24 MONTHS $26,643

HEJHAL, DENNIS A; *CLASSICAL ANALYSIS AND NUMBER THEORY (MCS-7827377 A01)*; $9,000

FABES, EUGENE B, AND LITTMAN, WALTER; *PARTIAL DIFFERENTIAL EQUATIONS AND REAL ANALYSIS (MCS-7903985 A01)*; 12 MONTHS $52,888

BERGER, THOMAS R, AND CHERMAK, ANDREW; *TOPICS IN FINITE GROUP THEORY (MCS-7901721 A01)*; 24 MONTHS $34,400

POHL, WILLIAM F; *DIFFERENTIAL GEOMETRY (MCS-7901725 A01)*; 12 MONTHS $42,049

MARKUS, LAWRENCE, SELL, GEORGE R, AND SIBUYA, YASUTAKA; *ORDINARY DIFFERENTIAL FUNCTIONAL EQUATIONS AND DYNAMICAL SYSTEMS (MCS-7901998 A02)*; 12 MONTHS $86,266

SERRIN, JAMES B; *PHENOMENOLOGICAL THERMODYNAMICS (MCS-7903515 A01*)*; 12 MONTHS $11,662

HINKLEY, DAVID V; *STATISTICAL METHODS OF DATA ANALYSIS (MCS-7904558 A01)*; 12 MONTHS $20,237

SETHNA, P R; *STUDY OF NONLINEAR DYNAMICAL SYSTEMS (CME-7921351*)*; 12 MONTHS $12,000

BERRY, DONALD A; *STATISTICAL DECISION THEORY: DYNAMIC ALLOCATION OF STOCHASTIC PROCESSES (MCS-8001800)*; 12 MONTHS $11,700

SPERBER, STEVEN; *ARITHMETIC ALGEBRAIC GEOMETRY (MCS-8001865)*; 12 MONTHS $9,300

ROBERTS, JOEL; *ALGEBRAIC GEOMETRY AND COMMUTATIVE RINGS (MCS-8001869)*; 24 MONTHS $22,000

ARONSON, DONALD G; *STUDIES IN NONLINEAR ANALYSIS (MCS-8002392)*; 12 MONTHS $30,001

ARONSON, DONALD G, AND MC GEHEE, RICHARD P; *COMPUTER-ASSISTED STUDIES OF DISCRETE DYNAMICAL SYSTEMS (MCS-8002445)*; 12 MONTHS $10,239

BAKELMAN, ILYA, AND SERRIN, JAMES B; *BOUNDARY VALUE PROBLEMS FOR GENERAL N-DIMENSIONAL ELLIPTIC MONGE-AMPERE EQUATIONS (MCS-8002564)*; 12 MONTHS $11,724

MISSOURI

ST LOUIS UNIVERSITY

CANTWELL, JOHN; *STRUCTURE OF CODIMENSION-ONE FOLIATIONS (MCS-8001547)*; 24 MONTHS $21,799

UNIVERSITY OF MISSOURI, COLUMBIA

KALTON, NIGEL J; *ON NON-LOCALLY CONVEX LINEAR METRIC SPACES (MCS-8001852)*; 12 MONTHS $10,845

UNIVERSITY OF MISSOURI, ROLLA

WRIGHT, FARROLL T; *THE ASYMPTOTIC BEHAVIOR OF ISOTONIC REGRESSION ESTIMATES (MCS-7801514 A02)*; 12 MONTHS $10,195

WASHINGTON UNIVERSITY

COIFMAN, RONALD R; *HARMONIC ANALYSIS ON LIE GROUPS AND SPACES OF HOMOGENEOUS TYPE (MCS-7903122 A01)*; 12 MONTHS $45,000

JENKINS, JAMES A; *GEOMETRIC METHODS IN THE THEORY OF FUNCTIONS (MCS-7903355 A01)*; 24 MONTHS $23,868

JENKINS, JAMES A; *GEOMETRIC METHODS IN THE THEORY OF FUNCTIONS (MCS-7903355 A02)*; $8,987

KORANYI, ADAM; *FUNCTION THEORY ON SYMMETRIC SPACES (MCS-7920062 A01)*; $4,900

ROCHBERG, RICHARD H; *SPACES OF ANALYTIC FUNCTIONS (MCS-8003689)*; 24 MONTHS $21,552

SILVERSTEIN, MARTIN L; *STOCHASTIC PROCESSES (MCS-8002821)*; 12 MONTHS $14,466

WRIGHT, DAVID; *CHARACTERIZING POLYNOMIAL RINGS AND AFFINE N - SPACE (MCS-8002844)*; 12 MONTHS $7,800

MORROW, GREGORY; *INVARIANCE PRINCIPLES IN PROBABILITY THEORY (MCS-8002874)*; 12 MONTHS $7,910

KORANYI, ADAM; *FUNCTION THEORY ON SYMMETRIC SPACES (MCS-8002977)*; 12 MONTHS $15,899

CONLON, LAWRENCE W; *QUALITATIVE THEORY OF FOLIATIONS OF CODIMENSION ONE (MCS-8003248)*; 24 MONTHS $22,300

HANO, JUN-ICHI, AND JENSEN, GARY; *REGIONAL CONFERENCE ON AFFINE AND PROJECTIVE STRUCTURES ON COMPLEX MANIFOLDS, JULY 7-12, 1980, ST. LOUIS, MISSOURI (MCS-8006612)*; 12 MONTHS $12,767

MONTANA

UNIVERSITY OF MONTANA

WANG, FRANK J; *LIMIT THEOREMS FOR MEASURE-VALUED STOCHASTIC POPULATION PROCESSES (MCS-8005486)*; 12 MONTHS $8,902

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

MEAKIN, JOHN C; *STRUCTURE OF BIORDERED SETS AND REGULAR SEMIGROUPS (MCS-8002901)*; 12 MONTHS $6,400

WIEGAND, ROGER A; *NOETHERIAN RINGS OF DIMENSION TWO (MCS-8003268)*; 12 MONTHS $10,700

GILFEATHER, FRANK L, AND LARSON, DAVID R; *OPERATOR ALGEBRAS (MCS-8003617)*; 12 MONTHS $17,330

NEW HAMPSHIRE

ASSOCIATION FOR PHYSICAL & SYSTEMS MATHEMATICS

HERMANN, ROBERT; *TOPICS IN THE DIFFERENTIAL-GEOMETRIC THEORY OF NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS (MCS-8003227)*; 24 MONTHS $24,668

DARTMOUTH COLLEGE

PALMER, JOHN N, AND TRACY, CRAIG A; *LATTICE MODEL CALCULATIONS OF SCALING FUNCTIONS (MCS-8002148)*; 12 MONTHS $16,529

NEW JERSEY

INDIVIDUAL AWARD

BEALS, ROBERT M; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017154)*; 12 MONTHS $17,000

GABAI, DAVID; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017200)*; 12 MONTHS $17,000

JERISON, DAVID S; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017202)*; 12 MONTHS $17,000

INSTITUTE FOR ADVANCED STUDY

BOREL, ARMAND, LANGLANDS, ROBERT P, MILNOR, JOHN W, AND HARISH, CHANRDA; *SEMINARS CONCERNING BASIC RESEARCH IN MATHEMATICS: ALGEBRA, ANALYSIS AND TOPOLOGY (MCS-7718723 A03)*; 12 MONTHS $590,000

BOREL, ARMAND, LANGLANDS, ROBERT P, MILNOR, JOHN W, AND HARISH, CHANRDA; *SEMINARS CONCERNING BASIC RESEARCH IN MATHEMATICS: ALGEBRA, ANALYSIS, AND TOPOLOGY (MCS-7718723 A04)*; 12 MONTHS $570,000

BOMBIERI, ENRICO, BOREL, ARMAND, AND MILNOR, JOHN W; *SUPPORT OF SPECIAL YEAR PROGRAM, 1979-1980 (MCS-7912938)*; 12 MONTHS $85,000

PRINCETON UNIVERSITY

STEIN, ELIAS M; *HARMONIC ANALYSIS AND DIFFERENTIAL EQUATIONS (MCS-7682196 A04)*; $9,000

NELSON, EDWARD, AND ALMGREN, FREDERICK J; *APPLICATIONS OF FUNCTIONAL ANALYSIS AND GEOMETRIC MEASURE THEORY (MCS-7801863 A02)*; 12 MONTHS $64,500

SIMON, BARRY M; *MATHEMATICAL PHYSICS (MCS-7801885 A01*)*; 12 MONTHS $30,709

SIMON, BARRY M; *MATHEMATICAL PHYSICS (MCS-7801885 A04)*; $18,986
DWORK, BERNARD M, AND SHIMURA, GORO; *ANALYTIC AND ALGEBRAIC METHODS IN GEOMETRY AND NUMBER THEORY (MCS-7802781 A03)*; 12 MONTHS $130,000
LIEB, ELLIOTT; *STATISTICAL MECHANICS AND THE QUANTUM AND CLASSICAL MANY BODY PROBLEM (PHY-7825390 A01*)*; 12 MONTHS $30,000
BROWDER, WILLIAM, AND HSIANG, WU-CHUNG; *MANIFOLDS AND ALGEBRAIC TOPOLOGY (MCS-7902017 A01)*; 12 MONTHS $130,617
KOHN, JOSEPH J; *PARTIAL DIFFERENTIAL EQUATIONS (MCS-7908690)*; 12 MONTHS $110,000
KOHN, JOSEPH J; *PARTIAL DIFFERENTIAL EQUATIONS (MCS-7908690 A01)*; $9,000
KUHN, HAROLD W; *MATHEMATICAL ECONOMICS, PROGRAMMING, AND COMBINATORIAL PROBLEMS (MCS-7910027 A01)*; 12 MONTHS $47,754
GUNNING, ROBERT C; *TOPOLOGICAL METHODS IN COMPLEX ANALYSIS (MCS-8002338)*; 12 MONTHS $58,569
STEIN, ELIAS M; *HARMONIC ANALYSIS AND DIFFERENTIAL EQUATIONS (MCS-8003072)*; 12 MONTHS $87,832
BURGESS, JOHN P; *MATHEMATICAL LOGIC (MCS-8003254)*; 24 MONTHS $20,837

RUTGERS UNIVERSITY-BUSCH CAMPUS

COHEN, ARTHUR, AND STRAWDERMAN, WILLIAM E; *ADMISSIBLE STATISTICAL PROCEDURES (MCS-7824167 A01)*; 12 MONTHS $29,818
TEICHER, HENRY; *ITERATED LOGARITHM LAWS FOR QUADRATIC FORMS AND MARTINGALES (MCS-8005481)*; 12 MONTHS $19,256

RUTGERS UNIVERSITY-CAMDEN CAMPUS

JACOBOWITZ, HOWARD; *INDUCED GEOMETRIES AND REALIZATION PROBLEMS (MCS-8003048)*; 24 MONTHS $18,840

RUTGERS UNIVERSITY

BREDON, GLEN E; *ALGEBRAIC & DIFFERENTIAL TOPOLOGY (MCS-7802429 A03)*; 12 MONTHS $75,451
SUSSMANN, HECTOR J; *MATHEMATICAL AND APPLIED ASPECTS OF SYSTEMS THEORY (MCS-7802442 A02)*; 12 MONTHS $22,000
GORENSTEIN, DANIEL; *SIMPLE GROUPS OF CHARACTERISTIC 2-TYPE (MCS-7802640 A02)*; 12 MONTHS $57,800
CORWIN, LAWRENCE; *NON-ABELIAN HARMONIC ANALYSIS (MCS-7902715 A01)*; 24 MONTHS $25,574
DEGEORGE, DAVID; *DIFFERENTIAL GEOMETRY AND REPRESENTATION THEORY (MCS-7802734 A01)*; 24 MONTHS $15,400
HANGES, NICHOLAS; *ANALYTIC PSEUDODIFFERENTIAL OPERATORS OF PRINCIPAL TYPE (MCS-7802738 A02)*; 12 MONTHS $6,939
GUNDY, RICHARD F; *STUDIES IN MARTINGALE THEORY (MCS-7815273 A02)*; 12 MONTHS $17,555
WALLACH, NOLAN R; *GEOMETRY AND REPRESENTATION THEORY (MCS-7903153 A01)*; 12 MONTHS $18,667
PETRIE, TED E; *SMOOTH ACTIONS OF COMPACT LIE GROUPS (MCS-7903234 A01)*; 12 MONTHS $18,667
TREVES, FRANCOIS J; *LINEAR PARTIAL DIFFERENTIAL EQUATIONS (MCS-7903545 A01)*; 12 MONTHS $29,132
BERK, ROBERT H, AND SACKS, JEROME; *TOPICS IN STATISTICAL THEORY (MCS-8001789)*; 12 MONTHS $58,733
ISAACSON, DAVID, AND GORENSTEIN, DANIEL; *NUMERICAL METHODS FOR THE STUDY OF SCHRODINGER ENERGY OPERATORS (MCS-8002938)*; 12 MONTHS $9,090
NUSSBAUM, ROGER; *NONLINEAR FUNCTIONAL ANALYSIS (MCS-8002958)*; 24 MONTHS $27,039
LEPOWSKY, JAMES, AND WILSON, ROBERT L; *LIE ALGEBRAS (MCS-8003000)*; 12 MONTHS $23,000
PETRYSHYN, WALTER V; *NONLINEAR FUNCTIONAL ANALYSIS AND ITS APPLICATIONS (MCS-8003002)*; 12 MONTHS $16,600
FALK, RICHARD S; *FINITE ELEMENT METHODS FOR CONSTRAINED VARIATIONAL PROBLEMS (MCS-8003008)*; 24 MONTHS $22,254
HELL, PAVOL T; *MAPPINGS AND ARRANGEMENTS OF GROUPS (MCS-8003011)*; 12 MONTHS $11,400
BARBASCH, DAN; *THE ORBIT METHOD FOR SEMISIMPLE LIE GROUPS (MCS-8003075)*; 24 MONTHS $14,900
WALSH, BERTRAM J; *LINEAR OPERATORS ON HARMONIC FIELDS AND FUNCTIONS (MCS-8003077)*; 12 MONTHS $15,582
MUCKENHOUPT, BENJAMIN, AND WHEEDEN, RICHARD L; *NORM INEQUALITIES FOR CLASSICAL OPERATORS (MCS-8003098)*; 12 MONTHS $33,137
TAYLOR, JEAN E; *CRYSTALLINE VARIATIONAL PROBLEMS (MCS-8003583)*; 12 MONTHS $10,362
AKBULUT, SELMAN, AND GORENSTEIN, DANIEL; *TOPOLOGY OF ALGEBRAIC VARIETIES (MCS-8003615)*; 12 MONTHS $6,939

STEVENS INSTITUTE OF TECHNOLOGY

GILMAN, ROBERT H; *THE STRUCTURE OF MAXIMAL SUBGROUPS OF FINITE SIMPLE GROUPS (MCS-8002164)*; 24 MONTHS $14,800

WILLIAM PATERSON COLLEGE

PHADIA, ESWAR G; *PROBLEMS IN NONPARAMETRIC BAYESIAN INFERENCE (MCS-8003244)*; 24 MONTHS $18,700

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

WALKER, ELBERT A; *ABELIAN GROUPS (MCS-8003060)*; 12 MONTHS $39,000

UNIVERSITY OF NEW MEXICO

ONNEWEER, CORNELIS W; *HARMONIC ANALYSIS ON LOCAL FIELDS (MCS-7901957 A01)*; 24 MONTHS $22,109
HERSH, REUBEN; *RANDOM EVOLUTIONS AND OPERATOR DIFFERENTIAL EQUATIONS (MCS-8000285)*; 24 MONTHS $31,545

NEW YORK

BARUCH COLLEGE

SHEINGORN, MARK E; *TRANSITIVITY FOR FUCHSIAN GROUPS (MCS-7903519 A01)*; 24 MONTHS $13,860

BROOKLYN COLLEGE

KOHN, MARVIN J; *SYMMETRIC DERIVATIVES DEFINED BY WEIGHTED SPHERICAL MEANS (MCS-8003584)*; 12 MONTHS $11,490

CITY COLLEGE

BAUMSLAG, GILBERT; *STRUCTURAL PROBLEMS IN GROUP THEORY (MCS-7702750 A03)*; 12 MONTHS $18,600
BAUMSLAG, GILBERT; *STRUCTURAL PROBLEMS IN GROUP THEORY (MCS-7702750 A04)*; $9,000
COHN, HARVEY; *CLASS FIELD THEORY AND MODULAR FUNCTIONS (MCS-7903060 A01)*; 12 MONTHS $17,000
AKIN, ETHAN J; *THE VECTORFIELD MODEL OF GENETICS (MCS-7904713 A01)*; 12 MONTHS $15,257

CITY UNIVERSITY OF NEW YORK SYSTEM OFFICE

VASQUEZ, ALPHONSE T; *THE ALGEBRAIC TOPOLOGY OF THE HILBERT MODULAR VARIETY OF TOTALLY REAL CUBICS (MCS-8002941)*; 24 MONTHS $34,087

CLARKSON COLLEGE OF TECHNOLOGY

DUBINSKY, ED; *THE MATHEMATICAL STRUCTURE OF NUCLEAR FRECHET SPACES (MCS-7826536 A01)*; 24 MONTHS $24,981
ABLOWITZ, MARK J, NEWELL, ALAN C, AND KAUP, DAVID J; *NONLINEAR WAVE MOTION (MCS-7903498 A01)*; 12 MONTHS $38,214

COLGATE UNIVERSITY

TUCKER, THOMAS W; *GRAPH IMBEDDINGS AND GROUP ACTIONS (MCS-8003119)*; 24 MONTHS $18,931

COLUMBIA UNIVERSITY

DERMAN, CYRUS; *DECISION PROBLEMS IN THE THEORY OF RELIABILITY (MCS-7725146 A02)*; 12 MONTHS $21,327
BERS, LIPMAN, AND KURANISHI, MASATAKE; *FUNCTIONS OF ONE AND SEVERAL COMPLEX VARIABLES (MCS-7827119 A01)*; 12 MONTHS $83,717
JACQUET, HERVE; *REPRESENTATION THEORY (MCS-7901712 A01)*; 12 MONTHS $28,980
BIRMAN, JOAN S, MOISHEZON, BORIS, AND MORGAN, JOHN W; *ALGEBRAIC AND GEOMETRIC TOPOLOGY (MCS-7904715 A01)*; 12 MONTHS $79,506
BIRMAN, JOAN S, MOISHEZON, BORIS, AND MORGAN, JOHN W; *ALGEBRAIC AND GEOMETRIC TOPOLOGY (MCS-7904715 A02*)*; $9,144
ROBBINS, HERBERT E; *PROBABILITY THEORY AND MATHEMATICAL STATISTICS (MCS-7905811 A01)*; 12 MONTHS $63,000
HARER, JOHN; *THE TOPOLOGY OF 3- AND 4-DIMENSIONAL MANIFOLDS (MCS-8002325)*; 24 MONTHS $17,618
FLICKER, YUVAL Z; *AUTOMORPHIC REPRESENTATIONS (MCS-8002567)*; 24 MONTHS $18,787
STANTON, NANCY K; *EIGENVALUES OF THE COMPLEX LAPLACIAN (MCS-8002649)*; 24 MONTHS $19,075
BASS, HYMAN, GALLAGHER, PATRICK X, AND KOLCHIN, ELLIS R; *NUMBER THEORY, ALGEBRA, AND ALGEBRAIC GEOMETRY (MCS-8005802)*; 12 MONTHS $125,200
BASS, HYMAN, GALLAGHER, PATRICK X, AND KOLCHIN, ELLIS R; *NUMBER THEORY, ALGEBRA, AND ALGEBRAIC GEOMETRY (MCS-8005802 A01)*; $12,000

CORNELL UNIVERSITY

DYNKIN, EUGENE B, KESTEN, HARRY, AND SPITZER, FRANK L; *PROBABILITY THEORY (MCS-7703543 A04)*; $9,000
PAYNE, LAWRENCE E; *DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS (MCS-7919358)*; 12 MONTHS $35,506
TODD, MICHAEL J; *SPECIAL STRUCTURE IN SIMPLICIAL ALGORITHMS (ECS-7921279*)*; 12 MONTHS $13,983

CORNELL UNIVERSITY-CORNELL UNIVERSITY MEDICAL CENTER

RUBINOW, SOL I; *A MATHEMATICAL INVESTIGATION OF REACTION-DIFFUSION SYSTEMS ARISING IN BIOLOGY AND CHEMISTRY (MCS-7918597*)*; 36 MONTHS $41,671

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

DYNKIN, EUGENE B; *PROBABILITY THEORY (MCS-7703543 A03)*; 12 MONTHS $65,037
LUCAS, WILLIAM F, AND BILLERA, LOUIS J; *MULTIPERSON COOPERATIVE GAME THEORY (MCS-7728392 A02)*; 12 MONTHS $49,120
EARLE, CLIFFORD J, AND FUCHS, W H J; *MATHEMATICAL ANALYSIS (MCS-7800680 A03)*; 12 MONTHS $46,800
EARLE, CLIFFORD J; *MATHEMATICAL ANALYSIS (MCS-7800680 A04)*; $9,000
GROSS, LEONARD; *ANALYSIS OF FERMION FIELDS (MCS-7800688 A02)*; 12 MONTHS $14,425

ROSENBERG, ALEX, AND CHASE, STEPHEN U; *HOMOLOGICAL ALGEBRA, NUMBER THEORY, AND RELATED TOPICS (MCS-7800987 A02)*; 12 MONTHS $94,000

ROSENBERG, ALEX; *HOMOLOGICAL ALGEBRA, NUMBER THEORY, AND RELATED TOPICS (MCS-7800987 A03)*; $8,800

BROWN, LAWRENCE D, AND FARRELL, R H; *MATHEMATICAL STATISTICS (MCS-7824175 A01)*; 12 MONTHS $52,900

BRAMBLE, JAMES H; *NUMERICAL ANALYSIS AND DIFFERENTIAL EQUATIONS (MCS-7827003 A01)*; 12 MONTHS $57,427

LEVIN, SIMON A; *MATHEMATICAL THEORIES OF POPULATION DYNAMICS AND COMMUNITY STRUCTURE (MCS-8001618*)*; 12 MONTHS $10,892

KNAPP, A W; *ANALYSIS ON SEMISIMPLE GROUPS (MCS-8001854)*; 12 MONTHS $13,558

KNAPP, A W; *ANALYSIS ON SEMISIMPLE GROUPS (MCS-8001854 A01)*; $8,684

STRICHARTZ, ROBERT S; *CLASSICAL ANALYSIS AND GEOMETRY: RESEARCH IN MATHEMATICAL ANALYSIS (MCS-8002771)*; 24 MONTHS $24,395

NERODE, ANIL, AND MORLEY, MICHAEL D; *MATHEMATICAL LOGIC (MCS-8003016)*; 12 MONTHS $51,000

HWANG, J T; *THEORETICAL STATISTICS (MCS-8003568)*; 12 MONTHS $7,826

BERSTEIN, I, AND LIVESAY, G R; *TOPOLOGY (MCS-8004035)*; 12 MONTHS $76,036

CUNY GRADUATE SCHOOL AND UNIVERSITY CENTER

AUSLANDER, LOUIS; *HARMONIC ANALYSIS ON 2-STEP NILMANIFOLDS (MCS-7903080 A01)*; 12 MONTHS $21,823

MOSKOWITZ, MARTIN A; *BOUNDEDNESS OF ORBITS, HOMOGENEOUS SPACES OF FINITE VOLUME, AND DENSITY PROPERTIES (MCS-8003234)*; 24 MONTHS $33,968

FORDHAM UNIVERSITY

JATEGAONKAR, ARUN V; *NON-COMMUTATIVE NOETHERIAN RINGS (MCS-8003892)*; 24 MONTHS $22,600

INDIVIDUAL AWARD

KOHN, ROBERT V; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-7919146 A01)*; 12 MONTHS $17,000

NEDELMAN, JERRY; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017155)*; 12 MONTHS $17,000

NEW YORK UNIVERSITY

PAPANICOLAOU, GEORGE; *MATHEMATICAL PROBLEMS ON ELECTROMAGNETIC THEORY AND OTHER APPLIED FIELDS (MCS-7802920 A03)*; 12 MONTHS $40,000

JOHN, FRITZ; *RESEARCH IN MATHEMATICAL PHYSICS (MCS-7900812 A01)*; 12 MONTHS $31,000

NIRENBERG, LOUIS; *DIFFERENTIAL EQUATIONS AND PROBABILITY (MCS-7900813 A01)*; 12 MONTHS $239,225

BERMAN, SIMEON M; *PROBLEMS IN STOCHASTIC PROCESSES (MCS-7902020 A01)*; 12 MONTHS $11,150

PERCUS, JEROME K, AND CHILDRESS, WILLIAM S; *MATHEMATICAL MODELS OF CELL MOVEMENT IN DEVELOPING TISSUE (MCS-7902766 A01)*; 12 MONTHS $39,000

MOSER, JURGEN K; *DYNAMICAL SYSTEMS (MCS-8002527)*; 12 MONTHS $22,000

TRUBOWITZ, E, AND DEIFT, PERCY A; *VECTOR BUNDLES AND INTEGRABLE PARTICLE SYSTEMS ASSOCIATED WITH LINEAR ORDINARY DIFFERENTIAL OPERATORS AND APPLICATIONS TO NON-LINEAR WAVES (MCS-8002561)*; 12 MONTHS $15,800

VARADHAN, SRINIVASA S, AND DONSKER, MONROE; *MARKOV PROCESSES (MCS-8002568*)*; 12 MONTHS $46,261

CAPPELL, SYLVAIN E; *TOPOLOGICAL AND RELATED STRUCTURES (MCS-8002925)*; 12 MONTHS $17,075

POLYTECHNIC INSTITUTE OF NEW YORK

HOCHSTADT, HARRY; *PROPERTIES OF SOLUTION OF DIFFERENTIAL EQUATIONS ARISING IN STUDIES OF WAVE PROPAGATION, ELASTICITY AND FLUID MECHANICS (MCS-7903407 A01)*; 12 MONTHS $38,254

MILLER, E Y; *ALGEBRAIC AND GEOMETRIC TOPOLOGY (MCS-8003110)*; 12 MONTHS $11,700

MILLER, E Y; *ALGEBRAIC AND GEOMETRIC TOPOLOGY (MCS-8003110 A01)*; $818

QUEENS COLLEGE

EMERSON, WILLIAM R; *FUNCTIONAL ANALYSIS AND GEOMETRY OF GROUPS (MCS-7802659 A01)*; 24 MONTHS $28,860

SHUB, MICHAEL; *DYNAMICAL SYSTEMS AND TOPOLOGY (MCS-7802721 A01)*; 24 MONTHS $53,100

KRAMER, KENNETH B; *STUDIES ON THE ARITHMETIC OF ELLIPTIC CURVES (MCS-7802784 A01)*; 12 MONTHS $11,900

TISCHLER, DAVID; *SINGULARITIES OF DIFFERENTIAL FORMS AND STEADY-STATE BIFURCATION THEORY (MCS-7905799 A01)*; 12 MONTHS $12,544

TILSON, BRET R; *STRUCTURAL HIERARCHIES OF SEMIGROUPS AND RECOGNIZABLE SETS (MCS-8003595*)*; 24 MONTHS $13,300

RENSSELAER POLYTECHNIC INSTITUTE

LEMKE, CARLTON E, AND ECKER, JOSEPH G; *MATHEMATICAL PROGRAMMING (MCS-7802096 A03)*; 12 MONTHS $45,282

HABETLER, GEORGE J; *NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (MCS-7903483 A01)*; 24 MONTHS $33,849

ODELL, GARRETT M, AND SEGEL, LEE A; *THEORIES OF BIOLOGICAL MOTION AND PATTERN, AND THEIR CONTROL (MCS-7903548 A01)*; 12 MONTHS $27,724

BOYCE, WILLIAM E; *RANDOM BOUNDARY VALUE AND EIGENVALUE PROBLEMS (MCS-8003035)*; 24 MONTHS $26,710

HOLMES, MARK H; *REGIONAL CONFERENCE ON MATHEMATICAL MODELING OF THE HEARING PROCESS, TROY, NEW YORK, JULY 21-25, 1980 (MCS-8006017)*; 12 MONTHS $11,800

ROCKEFELLER UNIVERSITY

GLIMM, JAMES; *MATHEMATICS APPLIED TO THEORETICAL PHYSICS, ENGINEERING AND BIOLOGY (PHY-8001979*)*; 24 MONTHS $50,000

STATE UNIVERSITY AT ALBANY

GREENBERG, JAMES M; *NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS (MCS-7701708 A02)*; $2,123

KORENBLUM, BORIS; *RIESZ NEVANLINNA-BUERLING CLASSES OF SUBHARMONIC, HARMONIC AND ANALYSIC FUNCTIONS (MCS-8003413)*; 24 MONTHS $44,121

JAMISON, BENTON N; *GEOMETRICAL STRUCTURE OF MARKOV PROCESS SAMPLE PATHS, TIME CHANGES, AND MARTINGALE REPRESENTATIONS (MCS-8003562)*; 12 MONTHS $16,055

LANCE, TIMOTHY L; *REGIONAL CONFERENCE ON BROWN PETERSON HOMOLOGY; ALBANY, NEW YORK; JUNE 23-27, 1980 (MCS-8005871)*; 6 MONTHS $11,300

STATE UNIVERSITY AT BINGHAMTON

FEINGOLD, ALEX J; *GENERALIZED CARTAN MATRIX LIE ALGEBRAS (MCS-80[illegible]198)*; 24 MONTHS $16,000

BRIN, MATTHEW G; *TOPOLOGY OF 3-MANIFOLDS (MCS-8002242)*; 24 MONTHS $16,413

GEER, JAMES F; *MATHEMATICAL PROBLEMS IN SLENDER BODY THEORY (MCS-8002534)*; 12 MONTHS $14,318

STATE UNIVERSITY AT BUFFALO

ZAME, WILLIAM R; *COMPLEX ANALYSIS (MCS-7901786 A01)*; 24 MONTHS $22,000

PIECH, M ANN; *DIFFERENTIAL OPERATORS ON ABSTRACT WIENER SPACES AND ON RIEMANNIAN-WIENER MANIFOLDS (MCS-7903220 A01)*; 12 MONTHS $15,100

ISBELL, JOHN R, LAWVERE, F WILLIAM, DUSKIN, JOHN W, AND SCHANUEL, STEPHEN; *TOPICS IN ALGEBRA (MCS-7904162 A01)*; 12 MONTHS $63,500

COBURN, LEWIS A; *OPERATOR THEORY AND FUNCTIONAL ANALYSIS (MCS-8002693)*; 12 MONTHS $16,647

GORDON, WILLIAM J; *BRAUER GROUPS OF ALGEBRAIC SURFACES (MCS-8002895)*; 12 MONTHS $6,600

BAKER, BENNETT M; *OPERATOR ALGEBRAS IN MATHEMATICAL PHYSICS (MCS-8003041)*; 24 MONTHS $12,925

HASTINGS, STUART P; *NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS (MCS-8018531)*; 12 MONTHS $16,779

STATE UNIVERSITY AT STONY BROOK

KRA, IRWIN, AND MASKIT, BERNARD; *DEFORMATION OF COMPLEX STRUCTURES (MCS-7801248 A03)*; 12 MONTHS $56,297

KRA, IRWIN, AND MASKIT, BERNARD; *DEFORMATION OF COMPLEX STRUCTURES (MCS-7801248 A04)*; $8,000

DOUGLAS, RONALD G, AND PINCUS, JOEL D; *PURE AND APPLIED OPERATOR THEORY (MCS-7801871 A03)*; 12 MONTHS $56,200

DOUGLAS, RONALD G, AND PINCUS, JOEL D; *PURE AND APPLIED OPERATOR THEORY (MCS-7801871 A04)*; $18 990

DOUGLAS, RONALD G, AND PINCUS, JOEL D; *PURE AND APPLIED OPERATOR THEORY (MCS-7801871 A05)*; $9,000

GROMOLL, DETLEF, AND CHEEGER, JEFF; *DIFFERENTIAL GEOMETRY (MCS-7902679 A03)*; 12 MONTHS $82,468

CHARLAP, LEONARD S, AND PHILLIPS, ANTHONY V; *TOPOLOGY AND MANIFOLDS (MCS-7905795 A01)*; $13,285

CHARLAP, LEONARD S; *TOPOLOGY AND MANIFOLDS (MCS-7905795 A02)*; 12 MONTHS $104,000

SPENCER, JOEL; *COMBINATORIAL ANALYSIS (MCS-8001593)*; 24 MONTHS $24,000

KRA, IRWIN; *DEFORMATION OF COMPLEX STRUCTURES (MCS-8001811)*; 12 MONTHS $7,444

HILL, C DENSON; *COMPLEXES OF PARTIAL DIFFERENTIAL EQUATIONS AND CAUCHY RIEMANN STRUCTURES (MCS-8003411)*; 24 MONTHS $28,871

SAH, CHIH-HAN; *ALGEBRA AND NUMBER THEORY (MCS-8003600)*; 12 MONTHS $27,200

SYRACUSE UNIVERSITY

ANDERSON, DOUGLAS R; *GROUPS OF HOMEOMORPHISMS, EQUIVARIANT TORSION INVARIANTS, AND FINITE TRANSFORMATION GROUPS (MCS-8002957)*; 12 MONTHS $14,984

BARTH, KARL F; *FUNCTION THEORY AND POTENTIAL THEORY (MCS-8004055)*; 12 MONTHS $25,197

UNIVERSITY OF ROCHESTER

TANNY, DAVID L; *PROBABILITY (MCS-7802142 A01)*; 24 MONTHS $19,930

LUBKIN, SAUL; *ALGEBRAIC GEOMETRY AND HOMOLOGICAL ALGEBRA (MCS-7905025 A01)*; 24 MONTHS $26,000

LAVINE, RICHARD B; *MATHEMATICAL PROBLEMS IN QUANTUM DYNAMICS (MCS-8002234)*; 24 MONTHS $22,717

GLOVER, JOSEPH; *RAW TIME CHANGES AND POTENTIAL THEORY OF MARKOV PROCESSES (MCS-8002659)*; 24 MONTHS $17,691

PITTS, JON T; *EXISTENCE, REGULARITY, AND STABILITY OF MINIMAL SURFACES ON RIEMANNIAN MANIFOLDS (MCS-8002935)*; 24 MONTHS $20,226

MACK, YUE-POK; *ASYMPTOTIC THEORY FOR K-NEAREST NEIGHBOR ESTIMATES (MCS-8003620)*; 12 MONTHS $8,690

YESHIVA UNIVERSITY

SCHECHTER, MARTIN; *SCATTERING THEORY IN TWO HILBERT SPACES (MCS-7824166 A01)*; 24 MONTHS $38,512

BERGER, CHARLES A, AND COBURN, LEWIS A; *OPERATOR THEORY AND FUNCTIONAL ANALYSIS (MCS-7904459 A01)*; 12 MONTHS $14,931

EHRENPREIS, LEON; *PARTIAL DIFFERENTIAL EQUATIONS, HARMONIC ANALYSIS, GROUP REPRESENTATIONS, RIEMANN SURFACES, AND PROBABILISTIC METHODS IN FUNCTION THEORY (MCS-8004486)*; 24 MONTHS $45,624

NORTH CAROLINA

DUKE UNIVERSITY

WOLPERT, ROBERT L; *A PREDICTION PROBLEM FOR THE WIENER-YEH PROCESS (MCS-7801737 A01)*; 24 MONTHS $18,772

REED, MICHAEL C; *SINGULARITY THEORY OF SEMILINEAR WAVES (MCS-7802179 A01)*; 24 MONTHS $26,337

PARDON, WILLIAM L; *TOPOLOGY OF LINEAR REPRESENTATIONS AND QUADRATIC K-THEORY (MCS-7802404 A01)*; 24 MONTHS $20,469

SCHAEFFER, DAVID G; *PERTURBED BIFURCATION AND SINGULARITY THEORY (MCS-7902010 A01)*; 24 MONTHS $36,177

MOORE, LAWRENCE C; *NONSTANDARD HULLS OF BANACH SPACES (MCS-8002183)*; 24 MONTHS $18,741

LAWLER, GREGORY F; *SELF-AVOIDING RANDOM WALK IN FOUR AND THREE DIMENSIONS (MCS-8002758)*; 24 MONTHS $14,695

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

MOSTOW, MARK A; *DIFFERENTIABLE STRUCTURES AND DIFFERENTIAL FORMS ON SPACES OF CONNECTIONS MODULO GAUGE EQUIVALENCE (MCS-8003419)*; 24 MONTHS $18,500

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

GROSS, KENNETH I; *HARMONIC ANALYSIS (MCS-7800906 A02)*; 12 MONTHS $12,267

DAMON, JAMES N; *STRUCTURE OF TOPOLOGICALLY STABLE GERMS (MCS-7801098 A01)*; 24 MONTHS $22,536

BRYLAWSKI, THOMAS H; *MATROID EMBEDDINGS IN UNIFORM GEOMETRIES AND THE BROKEN-CIRCUIT COMPLEX (MCS-7801149 A01)*; 24 MONTHS $21,700

SIMONS, GORDON; *PROBLEMS IN MATHEMATICAL STATISTICS (MCS-7801240 A02)*; 12 MONTHS $34,153

KAREL, MARTIN L; *MODIFIED WHITTAKER MODELS (MCS-7901740 A01)*; 12 MONTHS $9,600

STASHEFF, JAMES D; *HOMOTOPY THEORY OF CLASSIFYING SPACES AND FIBRINGS (MCS-7903460 A01)*; 12 MONTHS $21,023

PLANTE, JOSEPH F; *ASYMPTOTIC PROPERTIES OF FOLIATIONS (MCS-7926494)*; 24 MONTHS $21,200

PETERSEN, KARL E; *MAXIMAL FUNCTIONS, SINGULAR INTEGRALS, AND ALMOST EVERYWHERE CONVERGENCE IN ERGODIC THEORY (MCS-8001590)*; 24 MONTHS $23,515

MARCUS, BRIAN H; *ERGODIC THEORY AND DYNAMICAL SYSTEMS (MCS-8001796)*; 12 MONTHS $7,621

KERZMAN, NORBERTO; *PARTIAL DIFFERENTIAL EQUATIONS AND SINGULAR INTEGRAL METHODS IN SEVERAL COMPLEX VARIABLES (MCS-8001887)*; 24 MONTHS $26,400

NEWHOUSE, SHELDON E; *DYNAMICAL SYSTEMS AND BIFURCATION THEORY (MCS-8001890)*; 12 MONTHS $12,925

SCHLESSINGER, MICHAEL; *DEFORMATION THEORY (MCS-8002278)*; 12 MONTHS $10,400

KALLIANPUR, GOPINATH; *STOCHASTIC PROCESSES AND THE THEORY OF STOCHASTIC DIFFERENTIAL EQUATIONS IN ESTIMATION AND CONTROL (MCS-8011191)*; 12 MONTHS $24,221

NORTH DAKOTA

NORTH DAKOTA STATE UNIVERSITY MAIN CAMPUS

SHAPIRO, LEONARD D; *MATHEMATICAL ECONOMICS AND DYNAMICAL SYSTEMS (MCS-8002936)*; 12 MONTHS $13,405

OHIO

BOWLING GREEN STATE UNIVERSITY

GUPTA, ARJUN K; *REGIONAL CONFERENCE ON JACKKNIFE AND BOOTSTRAP METHODS IN STATISTICS, BOWLING GREEN, OHIO, JUNE 16-20,1980 (MCS-8005092)*; 6 MONTHS $15,600

CASE WESTERN RESERVE UNIVERSITY

LEITMAN, MARSHALL J; *KINETIC EQUATIONS AND EVOLUTIONARY SYSTEMS (MCS-8002859)*; 12 MONTHS $8,907

SINGER, DAVID A; *GEODESICS ON SURFACES AND DISCRETE DYNAMICAL SYSTEMS (MCS-8002871)*; 24 MONTHS $21,851

CLEVELAND STATE UNIVERSITY

SILBERGER, ALLAN J; *HARMONIC ANALYSIS ON REDUCTIVE P-ADIC GROUPS (MCS-7803594 A01)*; 24 MONTHS $17,400

OHIO STATE UNIVERSITY

SOLOMON, RONALD M; *FINITE SIMPLE GROUPS AND BN-PAIRS (MCS-7902155 A01)*; 24 MONTHS $19,600

DAVIS, WILLIAM J, AND LINDENSTRAUSS, JORAM; *THE APPROXIMATION PROPERTY (MCS-7902194 A02)*; 12 MONTHS $35,641

SHAPIRO, DANIEL B; *SPACES OF SIMILARITIES (MCS-7902207 A01)*; 24 MONTHS $11,600

FRIEDMAN, HARVEY M; *DIRECTIONS IN MODEL THEORY AND SET THEORY (MCS-7902558 A01)*; $16,750

JOHNSON, WILLIAM B; *GEOMETRY OF BANACH SPACES (MCS-7903042 A01)*; 12 MONTHS $54,106

RALLIS, STEPHEN J; *APPLICATIONS OF THE WEIL REPRESENTATION TO LIFTING THEORY AND TO COHOMOLOGY OF DISCRETE GROUPS (MCS-8002847)*; 24 MONTHS $19,000

ROSENBLATT, JOSEPH M; *PHASE RETRIEVAL (MCS-8002881)*; 24 MONTHS $17,914

FOREST, M G; *INVERSE SPECTRAL THEORY AND CONCRETE ASPECTS OF PERIODIC SOLITONS (MCS-8002969)*; 12 MONTHS $7,920

HSIA, JOHN S; *SOME ASPECTS OF CLASSIFICATION AND REPRESENTATION OF INTEGRAL QUADRATIC FORMS (MCS-8002985)*; 12 MONTHS $12,057

DEL JUNCO, ANDRES; *FINITARY CODING IN ERGODIC THEORY (MCS-8003038)*; 24 MONTHS $17,986

LEWIS, DANIEL R; *SYMMETRIES OF FINITE DIMENSIONAL NORMED SPACES (MCS-8003042)*; 24 MONTHS $22,890

EDGAR, GERALD; *MEASURABILITY IN A BANACH SPACE (MCS-8003078)*; 24 MONTHS $19,358

ZASLAVSKY, THOMAS; *MATROIDS AND GRAPHS (MCS-8003109)*; 12 MONTHS $8,200

BURGHELEA, DAN; *HOMOTOPY TYPE OF THE GROUP OF AUTOMORPHISMS OF COMPACT MANIFOLDS (MCS-8003276)*; 12 MONTHS $15,685

SUCHESTON, LOUIS; *PROBABILITY AND ERGODIC THEORY (MCS-8005395)*; 12 MONTHS $20,033

MITYAGIN, BORIS; *GEOMETRY OF NUCLEAR SPACES (MCS-8006073)*; 12 MONTHS $15,904

OHIO UNIVERSITY

VAN DOUWEN, ERIC K; *SET THEORETIC TOPOLOGY (MCS-8003619)*; 24 MONTHS $14,000

UNIVERSITY OF CINCINNATI

MEYER, KENNETH R; *DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS (MCS-8001851)*; 12 MONTHS $48,105

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

ALSPACH, DALE E; *COMPLEMENTED SUBSPACES OF CLASSICAL BANACH SPACES (MCS-8002510)*; 24 MONTHS $15,300

MYERS, JOHN R; *TOPOLOGY OF 3-MANIFOLDS (MCS-8002524)*; 24 MONTHS $13,052

WOLFE, JOHN E; *TOPICS IN BANACH SPACE THEORY (MCS-8002544)*; 24 MONTHS $15,986

MUKHOPADHYAY, N; *REGIONAL CONFERENCE ON ASYMPTOTIC SEQUENTIAL ESTIMATION AND TESTING, STILLWATER, OKLAHOMA, JULY 7-11, 1980 (MCS-8005908)*; 12 MONTHS $14,300

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

MAGID, ANDY R; *REPRESENTATIONS OF ANALYTIC GROUPS AND RELATED PROBLEMS (MCS-7801263 A01)*; 24 MONTHS $26,200

BREEN, MARILYN, AND KAY, DAVID; *A THREE-DAY CONFERENCE ON CONVEXITY AND RELATED COMBINATORIAL GEOMETRY, NORMAN, OKLAHOMA, MARCH 13-15, 1980 (MCS-8001889)*; 12 MONTHS $2,250

OREGON

OREGON STATE UNIVERSITY

SMITH, KENNAN T; *MATHEMATICAL ASPECTS OF DIVERGENT BEAM RADIOGRAPHY (MCS-7900330 A01*)*; 12 MONTHS $14,005

FIREY, WILLIAM J; *PROBLEMS IN INTEGRAL GEOMETRY (MCS-7900331 A01)*; 12 MONTHS $14,550

BRUNK, H D; *BAYES MODELS (MCS-8002907)*; 24 MONTHS $35,682

BURTON, ROBERT M; *ERGODIC PROPERTIES OF LOOSELY MARKOV PROCESSES (MCS-8005172)*; 24 MONTHS $14,398

UNIVERSITY OF OREGON - EUGENE

HARRISON, DAVID K; *RINGS AND FORMS (MCS-7727909 A02)*; 12 MONTHS $17,500

SEITZ, GARY M, AND CURTIS, CHARLES W; *FINITE GROUP THEORY AND REPRESENTATION THEORY (MCS-7801944 A02)*; 12 MONTHS $30,500

KANTOR, WILLIAM M; *PERMUTATION GROUPS (MCS-7903130 A01)*; 12 MONTHS $12,400

SUTHERLAND, COLIN E; *REPRESENTATIONS OF MEASURABLE GROUPOIDS (MCS-8002525)*; 24 MONTHS $19,456

TRUAX, DONALD R; *PROBABILITY AND STATISTICS (MCS-8002754)*; 12 MONTHS $23,200

PENNSYLVANIA

BRYN MAWR COLLEGE

HUGHES, RHONDA J; *SELF-ADJOINTNESS OF SINGULAR PERTURBATIONS (MCS-8011198)*; 12 MONTHS $9,038

CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

BALAS, EGON; *INTEGER AND COMBINATIONAL PROGRAMMING (ECS-7902506 A01*)*; 12 MONTHS $20,667

CARNEGIE-MELLON UNIVERSITY

GURTIN, MORTON E, AND WILLIAMS, WILLIAM O; *STUDIES IN CONTINUUM MECHANICS AND THERMODYNAMICS (MCS-7801935 A02)*; 12 MONTHS $39,272

KNOWLES, GREGORY P, AND HAGER, WILLIAM W; *OPTIMAL CONTROL AND FINITE ELEMENTS (MCS-7825526 A01)*; 12 MONTHS $19,594

COLEMAN, BERNARD D, AND OWEN, DAVID R; *NON-LINEAR CONTINUUM MECHANICS (MCS-7902536 A01)*; 12 MONTHS $28,525

SCHAFFER, JUAN J; *STUDIES IN FUNCTIONAL ANALYSIS AND FUNCTIONAL-DIFFERENTIAL EQUATIONS (MCS-7902546 A01)*; 12 MONTHS $16,407

MIZEL, VICTOR J; *NONLINEAR AND STOCHASTIC ANALYSIS (MCS-7905786)*; 12 MONTHS $19,246

PANG, JONG-SHI; *LARGE SCALE AND GENERALIZED COMPLEMENTARITY SYSTEMS (ECS-7926320*)*; 12 MONTHS $4,000

MACCAMY, RICHARD C; *DIFFERENTIAL AND INTEGRAL EQUATIONS FOR HEREDITARY SYSTEMS (MCS-8001944)*; 12 MONTHS $16,973

COFFMAN, CHARLES V, AND MIZEL, VICTOR J; *ANALYSIS AND CONTINUUM MECHANICS (MCS-8002851)*; 12 MONTHS $13,839

EDDY, WILLIAM F; *STATISTICAL MODELS FOR RANDOM SETS (MCS-8005115)*; 24 MONTHS $21,200

LEHIGH UNIVERSITY

RIVLIN, RONALD S; *STUDIES IN NON-LINEAR CONTINUUM PHYSICS (MCS-7720599 A02)*; 12 MONTHS $39,982

SMITH, GERALD F; *APPLICATIONS OF INVARIANT THEORY (MCS-7812285 A01)*; 12 MONTHS $17,455

RIVLIN, RONALD S; *IUTAM SYMPOSIUM ON FINITE ELASTICITY TO BE HELD AT BETHLEHEM, PENNSYLVANIA, AUGUST 11-15, 1980 (CME-7914638*)*; 12 MONTHS $3,863

GOLDBERG, VLADISLAV; *DIFFERENTIAL GEOMETRY OF WEBS (MCS-8001587)*; 24 MONTHS $24,725

PENNSYLVANIA STATE UNIVERSITY

JECH, THOMAS J; *MATHEMATICAL LOGIC (MCS-7713935 A02)*; 12 MONTHS $27,893

WARE, ROGER P; *QUADRATIC FORMS, WITT RINGS, AND GALOIS 2-EXTENSIONS (MCS-7801703 A01)*; 24 MONTHS $23,000

FULTON, CHARLES T; *SPECTRAL ANALYSIS OF SINGULAR EIGENVALUE PROBLEMS (MCS-7902025 A01)*; 6 MONTHS $4,032

WATERHOUSE, WILLIAM C; *GROUP THEORY, ALGEBRAIC GROUPS AND RELATED TOPICS (MCS-7903067 A01)*; 12 MONTHS $34,000

LALLEMENT, GERARD; *FINITE PREFIX CODES (MCS-8001558*)*; 24 MONTHS $12,200

MITCHELL, WILLIAM J; *CONSTRUCTIBILITY AND LARGE CARDINALS (MCS-8001846*)*; 12 MONTHS $11,811

PARSONS, TORRENCE D; *PROBLEMS IN GRAPH THEORY (MCS-8002263)*; 12 MONTHS $10,800

STAFFELDT, ROSS E; *ON APPLICATIONS OF THE ALGEBRAIC K-THEORY OF TOPOLOGICAL SPACES (MCS-8002396)*; 24 MONTHS $19,200

VASERSTEIN, LEONID; *TOPICS IN CLASSICAL GROUPS OVER RINGS (MCS-8002801)*; 12 MONTHS $14,400

HERMAN, RICHARD H, AND ANDERSON, JOEL H; *BANACH *-ALGEBRAS AND ALGEBRAS OF OPERATORS (MCS-8002802)*; 12 MONTHS $27,131

HAHN, KYONG T; *EQUIVALENCE OF PSEUDO METRICS, SMOOTH EXTENSION OF BIHOLOMORPHIC MAPS AND BIHOLOMORPHIC EQUIVALENCE OF DOMAINS (MCS-8002915)*; 24 MONTHS $24,638

ANDREWS GEORGE E, AND JAMES, DONALD G; *NUMBER THEORY AND ALLIED TOPICS (MCS-8003047)*; 24 MONTHS $106,000

LINDSAY, BRUCE G; *MAXIMUM LIKELIHOOD ESTIMATION IN DENSITIES WITH UNKNOWN MIXING DISTRIBUTIONS (MCS-8003081)*; 24 MONTHS $18,828

ARNOLD, STEVEN F; *AN EXTENDED STUDY OF OPTIMAL PROCEDURES FOR ANALYZING EXPERIMENTS WITH REPEATED MEASURES (MCS-8004454)*; 24 MONTHS $20,943

SOCIETY FOR INDUSTRIAL AND APPLIED MATH (SIAM)

BLOCK, I EDWARD; *SIAM SYMPOSIA ON ANALYTICAL AND NUMERICAL METHODS FOR DYNAMICAL PROBLEMS; JUNE 5-7, 1980; ALEXANDRIA, VIRGINIA (MCS-8000532)*; 6 MONTHS $6,009

TEMPLE UNIVERSITY

NEWMAN, DONALD J; *RATIONAL APPROXIMATION (MCS-7802171 A02)*; 12 MONTHS $16,335

GORDON, ROBERT; *THE NIL SUBRINGS PROBLEM FOR ENDOMORPHISM RINGS OF MODULES WITH KRULL DIMENSION AND TOPICS IN REPRESENTATION THEORY (MCS-7903087 A01)*; 12 MONTHS $10,700

KNOPP, MARVIN I; *MODULAR AND AUTOMORPHIC FORMS (MCS-7903471 A01)*; 24 MONTHS $25,473

UNIVERSITY OF PENNSYLVANIA

CALABI, EUGENIO; *DIFFERENTIAL STRUCTURES (MCS-7802285 A02)*; 12 MONTHS $62,042

CALABI, EUGENIO; *DIFFERENTIAL STRUCTURES (MCS-7802285 A03)*; $10,238

RIM, DOCK-SANG; *COMMUTATIVE ALGEBRA AND ALGEBRAIC GEOMETRY (MCS-7802320 A01)*; 24 MONTHS $62,500

KAZDAN, JERRY L, AND WARNER, FRANK W; *APPLICATIONS OF DIFFERENTIAL EQUATIONS TO DIFFERENTIAL GEOMETRY (MCS-7901780 A01)*; 12 MONTHS $33,540

KAZDAN, JERRY L, AND WARNER, FRANK W; *APPLICATIONS OF DIFFERENTIAL EQUATIONS TO DIFFERENTIAL GEOMETRY (MCS-7901780 A02)*; $9,542

KADISON, RICHARD V; *FUNCTIONAL ANALYSIS AND MATHEMATICAL PHYSICS (MCS-8002991)*; 12 MONTHS $105,000

GERSTENHABER, MURRAY; *MODERN GEOMETRIC METHODS IN ALGEBRA (MCS-8003096)*; 12 MONTHS $17,900

FREYD, PETER J; *CATEGORICAL ALGEBRA (MCS-8003111)*; 24 MONTHS $32,300

SAKAI, SHOICHIRO; *OPERATOR ALGEBRA (MCS-8003116)*; 12 MONTHS $14,325

UNIVERSITY OF PITTSBURGH

LAU, KA SING; *ON WIENER'S GENERALIZED HARMONIC ANALYSIS (MCS-7903638 A01)*; 24 MONTHS $18,154

MACBEATH, ALEXANDER M; *CRYSTALLOGRAPHY OF LOW-DIMENSIONAL SPACES (MCS-8003231)*; 12 MONTHS $15,688

LO, ALBERT Y; *BAYESIAN NONPARAMETRIC STATISTICAL PROCEDURES AND RELATED TOPICS (MCS-8003629)*; 12 MONTHS $8,347

RHODE ISLAND

AMERICAN MATHEMATICAL SOCIETY

LEVEQUE, WILLIAM J; *RESEARCH EXPOSITORY ARTICLES IN MATHEMATICS (MCS-7821334 A02)*; 12 MONTHS $12,000

STEINBERGER, MARK; *HIGHER SIMPLE HOMOTOPY THEORY AND ITS RELATION TO ALGEBRAIC K-THEORY (MCS-7921290)*; 12 MONTHS $7,595

LEVEQUE, WILLIAM J; *1980 SYMPOSIUM ON 'MATHEMATICAL HERITAGE OF HENRI POINCARE', BLOOMINGTON, INDIANA, APRIL 7-10, 1980 (MCS-7922916)*; 12 MONTHS $22,000

SMITH, RICK L; *CONSTRUCTIVE ASPECTS OF ALGEBRA (MCS-7923743)*; 12 MONTHS $7,595

HOFFSTEIN, JEFFREY E; *EISENSTEIN SERIES (MCS-7923745)*; 12 MONTHS $7,500

LEVEQUE, WILLIAM J; *ADMINISTRATION OF NSF MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP PROGRAM, 1979-1980 (MCS-7927055)*; 12 MONTHS $16,050

KADISON, RICHARD V, AND LEVEQUE, WILLIAM J; *1980 SUMMER INSTITUTE ON OPERATOR ALGEBRAS AND APPLICATIONS, JULY 14 TO AUGUST 2, 1980, KINGSTON, ONTARIO, CANADA (MCS-7927061)*; 18 MONTHS $110,000

LEVEQUE, WILLIAM J; *1980 SYMPOSIUM ON MATHEMATICAL PSYCHOLOGY AND PSYCHOPHYSIOLOGY, PHILADELPHIA, PENNSYLVANIA, APRIL 15-16, 1980 (MCS-8000912)*; 12 MONTHS $6,000

LEVEQUE, WILLIAM J, AND HOPPENSTEADT, FRANK C; *1980 SEMINAR ON ' MATHEMATICAL ASPECTS OF PHYSIOLOGY ', JUNE 15-27, SALT LAKE CITY, UTAH (MCS-8004659)*; 18 MONTHS $19,000

BROWN UNIVERSITY

KUSHNER, HAROLD J; *STOCHASTIC SYSTEMS AND STABILITY THEORY AND APPLICATIONS (ECS-7712946 A02*)*; 12 MONTHS $26,000

LUBIN, JONATHAN D; *PROBLEMS IN ALGEBRA (MCS-7802313 A01)*; 24 MONTHS $42,100

FULTON, WILLIAM; *ALGEBRAIC GEOMETRY (MCS-7804008 A02)*; 12 MONTHS $32,000

NOMIZU, KATSUMI; *DIFFERENTIAL GEOMETRY (MCS-7901310 A01)*; 12 MONTHS $44,622

STRAUSS, WALTER A; *SCATTERING THEORY OF LINEAR AND NONLINEAR WAVES (MCS-7901965 A01)*; 12 MONTHS $21,528

PIPKIN, ALLEN C; *MECHANICAL PROPERTIES OF SOLIDS AND LIQUIDS (MCS-7903392 A01*)*; 12 MONTHS $10,607

FLEMING, WENDELL H; *RESEARCH ON DISTRIBUTED PARAMETER STOCHASTIC SYSTEMS AND OPTIMAL STOCHASTIC CONTROL (MCS-7903554 A01)*; 12 MONTHS $30,715

FLEMING, WENDELL H; *RESEARCH ON DISTRIBUTED PARAMETER STOCHASTIC SYSTEMS AND OPTIMAL STOCHASTIC CONTROL (MCS-7903554 A02)*; $5,408

WEISSLER, FREDERIC B; *SEMIGROUPS OF OPERATORS: HYPERCONTRACTIVE ESTIMATES AND NONLINEAR PERTURBATIONS (MCS-7903636 A01)*; 12 MONTHS $8,491

HARRIS, BRUNO, BAUM, PAUL F, AND MACPHERSON, ROBERT D; *ALGEBRAIC AND GEOMETRIC TOPOLOGY (MCS-7904905 A01)*; 12 MONTHS $58,700

LASALLE, JOSEPH P, HALE, JACK K, BANKS, H T, AND DAFERMOS, CONSTANTI M; *DYNAMICAL SYSTEMS (MCS-7905774 A02)*; 12 MONTHS $102,000

SIROVICH, LAWRENCE; *APPLIED MATHEMATICAL STUDIES IN BIOLOGY (MCS-7918169)*; 24 MONTHS $31,500

ACCOLA, ROBERT D; *TOPICS IN OPEN AND CLOSED RIEMANN SURFACES (MCS-8001817)*; 12 MONTHS $15,857

WERMER, JOHN; *FUNCTION ALGEBRAS (MCS-8002917)*; 12 MONTHS $40,414

UNIVERSITY OF RHODE ISLAND

DRIVER, RODNEY D; *THE TWO-BODY PROBLEM OF CLASSICAL ELECTRODYNAMICS (MCS-8006581)*; 24 MONTHS $29,734

RUBINOW, SOL I, AND GOLDSTEIN, BYRON; *GORDON RESEARCH CONFERENCE ON THEORETICAL BIOLOGY AND BIOMATHEMATICS; JUNE 9 TO 13, 1980; TILTON, NEW HAMPSHIRE (MCS-8007414)*; 6 MONTHS $5,000

SOUTH CAROLINA

CLEMSON UNIVERSITY

JAMISON, ROBERT E; *GEOMETRY OF STABLE CONVEX SETS AND SEMILATTICES (MCS-8002543)*; 24 MONTHS $19,898

UNIVERSITY OF SOUTH CAROLINA AT AIKEN

LIN, T Y; *PROBLEMS IN ALGEBRAIC TOPOLOGY (MCS-8002699)*; 24 MONTHS $17,444

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

DEVORE, RONALD A; *STUDIES ON OPERATORS AND SPACES OF FUNCTIONS (MCS-7722982 A01)*; 12 MONTHS $33,934

MC NULTY, GEORGE F; *EQUATIONAL LOGIC AND OTHER FRAGMENTS OF FIRST-ORDER LOGIC (MCS-8001778)*; 24 MONTHS $19,911

NYIKOS, PETER J; *PROBLEMS IN SET-THEORETIC TOPOLOGY AND THE TOPOLOGY OF MANIFOLDS (MCS-8003004)*; 24 MONTHS $19,126

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

WALSH, JOHN J; *INFINITE DIMENSIONAL MANIFOLDS, CELL-LIKE MAPPINGS, AND ABSOLUTE NEIGHBORHOOD RETRACTS (MCS-7801436 A01)*; 24 MONTHS $20,151

JORDAN, G S; *RESOLVENTS OF VOLTERRA INTEGRAL AND INTEGRO-DIFFERENTIAL EQUATIONS (MCS-7903358 A01)*; 24 MONTHS $19,904

KLAASEN, GENE A, AND TROY, WILLIAM C; *FORMATION, STABILITY AND BIFURCATION OF SPATIAL STRUCTURES FOR SYSTEMS OF REACTION-DIFFUSION EQUATIONS (MCS-8002948)*; 12 MONTHS $11,278

GROSS, LOUIS J; *MODELS OF THE EVOLUTION OF PHENOTYPIC PLASTICITY IN VARIABLE ENVIRONMENTS (MCS-8002963)*; 12 MONTHS $7,405

TEXAS

NORTH TEXAS STATE UNIVERSITY

KALLMAN, ROBERT R; *THE TYPE QUESTION FOR TOPOLOGICAL GROUPS (MCS-8017902)*; 12 MONTHS $13,393

RICE UNIVERSITY

WANG, C C, AND BOWEN, RAY M; *NONLINEAR CONTINUUM MECHANICS (MCS-7800791 A02)*; 12 MONTHS $29,305

VEECH, WILLIAM A; *TOPOLOGICAL DYNAMICS, ERGODIC AND PROBABILITY THEORY, GLOBAL ANALYSIS, ANALYSIS ON LIE GROUPS (MCS-7801858 A03)*; 12 MONTHS $92,377

WELLS JR., R O; *COMPLEX ANALYSIS (MCS-7803571 A03)*; 12 MONTHS $60,726

CURTIS, MORTON L; *RESEARCH IN TOPOLOGY (MCS-7806116 A02)*; 12 MONTHS $59,564

TAYLOR, MICHAEL E; *PARTIAL DIFFERENTIAL EQUATIONS (MCS-7905138 A01)*; 24 MONTHS $39,274

JACO, WILLIAM H, AND HEMPEL, JOHN P; *CONFERENCE ON THE GEOMETRY AND TOPOLOGY OF 3-MANIFOLDS HOUSTON, TEXAS, JANUARY 7-18, 1980 (MCS-7926213)*; 12 MONTHS $8,750

WHEELER, MARY F; *FINITE ELEMENT METHODS FOR MISCIBLE AND IMMISCIBLE DISPLACEMENT (MCS-8003025)*; 24 MONTHS $23,753

BRYANT, ROBERT L; *DIFFERENTIAL GEOMETRY (MCS-8003237)*; 24 MONTHS $17,113

CULLER, MARC; *TOPOLOGICAL METHODS IN GROUP THEORY (MCS-8003238)*; 12 MONTHS $7,297

TEXAS A & M UNIVERSITY

HENSLEY, DOUGLAS A; *CONVEX BODIES AND BOUNDS FOR SLICE AREAS (MCS-7905409 A01)*; 12 MONTHS $7,874

BATTLE, GUY A; *INVESTIGATION OF THE PERTURBED EUCLIDEAN DIRAC EQUATION (MCS-8003499)*; 12 MONTHS $7,258

GUSTAFSON, ROBERT A; *THE UNRAMIFIED PRINCIPAL SERIES FOR P-ADIC CHEVALLEY GROUPS (MCS-8002553)*; 24 MONTHS $14,300

JOHNSON, DAVID L; *SECONDARY CHARACTERISTIC CLASSES OF ANALYTIC VECTOR BUNDLES (MCS-8002769)*; 24 MONTHS $15,309

TEXAS TECH UNIVERSITY

HARRIS, GARY A; *LOCAL FUNCTION THEORY AND GEOMETRY OF REAL SUBMANIFOLDS OF COMPLEX N-SPACE (MCS-7800806 A01)*; 24 MONTHS $14,000

STRAUSS, MONTY J; *UNIQUENESS AND NORM CONVEXITY IN THE CAUCHY PROBLEM (MCS-8001595)*; 12 MONTHS $8,832

UNIV OF TEXAS AT ARLINGTON

LAKSHMIKANTHAM , V; *REGIONAL CONFERENCE ON NONLINEAR FUNCTIONAL ANALYSIS AND APPLICATIONS TO DIFFERENTIAL EQUATIONS, ARLINGTON, TEXAS, JUNE 16-20, 1980 (MCS-8001579)*; 6 MONTHS $14,000

UNIV OF TEXAS AT AUSTIN

ODELL, EDWARD; *STRUCTURE PROBLEMS IN BANACH SPACES (MCS-7801344 A01)*; 24 MONTHS $16,831

CANNON, JOHN R; *A CLASS OF INVERSE PROBLEMS (MCS-7801687 A02)*; 12 MONTHS $15,640

GORDON, CAMERON M; *LOW-DIMENSIONAL MANIFOLDS AND KNOT THEORY (MCS-7802995 A01)*; 24 MONTHS $20,829

CHENEY, ELLIOT W; *INTERNATIONAL SYMPOSIUM ON APPROXIMATION THEORY - AUSTIN, TEXAS - JANUARY 8-12, 1980 (MCS-7902012)*; 12 MONTHS $11,000

YOUNG, DAVID M, AND KINCAID, DAVID R; *RESEARCH AND DEVELOPMENT OF ITERATIVE ALGORITHMS AND SOFTWARE FOR ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS (MCS-7919829*)*; 12 MONTHS $17,000

BICHTELER, KLAUS; *STOCHASTIC INTEGRALS AND HP-THEORY (MCS-8001779)*; 24 MONTHS $21,573

TOMAS, PETER; *LP BOUNDEDNESS OF FOURIER MULTIPLIERS (MCS-8001799)*; 24 MONTHS $19,219

KOLESNIK, GRIGORI; *ON THE ESTIMATE OF MULTIPLE EXPONENTIAL SUMS AND THEIR APPLICATIONS (MCS-8001873)*; 24 MONTHS $17,000

MILLER, ARNOLD W; *INDEPENDENCE PROOFS IN SET THEORY AND SET THEORETIC TOPOLOGY (MCS-8001883)*; 24 MONTHS $16,552

KUNEN, KENNETH; *MATHEMATICAL LOGIC AND FOUNDATIONS (MCS-8002132)*; 12 MONTHS $15,962

GRAHAM, SIDNEY W; *WEIGHTED SIEVES AND EXPONENTIAL SUMS (MCS-8002153)*; 24 MONTHS $16,000

VAALER, JEFFREY; *PROBABILISTIC METHODS IN DIOPHANTINE APPROXIMATION (MCS-8002249)*; 24 MONTHS $17,024

ROSENTHAL, HASKELL P; *FUNCTIONAL ANALYSIS: ISOMORPHIC THEORY OF BANACH SPACES (MCS-8002393)*; 12 MONTHS $28,112

SHOWALTER, RALPH E; *NONLINEAR EVOLUTION EQUATIONS AND INEQUALITIES WITH APPLICATIONS TO DIFFUSION IN HETEROGENEOUS MEDIA (MCS-8002687)*; 24 MONTHS $25,496

SCHELTER, WILLIAM F; *AFFINF RINGS SATISFYING A POLYNOMIAL IDENTITY (MCS-8003113)*; 12 MONTHS $10,400

MORRIS, CARL N; *EMPIRICAL BAYES AND OTHER MULTIPARAMETER ESTIMATION METHODS (MCS-8003416)*; 12 MONTHS $20,255

STARBIRD, MICHAEL; *CELLULAR DECOMPOSITIONS AND FREE SURFACES IN E3 (MCS-8005137)*; 24 MONTHS $17,600

BING, R H; *TOPOLOGY SUMMER 1980 (MCS-8006788)*; 3 MONTHS $4,000

UNIV OF TEXAS AT DALLAS

KIMELDORF, GEORGE; *MONOTONE CORRELATION AND POSITIVE DEPENDENCE (MCS-8002152)*; 12 MONTHS $13,526

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

PAULSEN, VERN I; *OPERATORS AND *-ALGEBRAS OF OPERATORS ON HILBERT SPACE (MCS-8001853)*; 24 MONTHS $14,999

UTAH

UNIVERSITY OF UTAH

GOODEARL, KENNETH R; *RING THEORY (MCS-7800977 A01)*; 24 MONTHS $22,300

ARMS, JUDITH M; *MATHEMATICAL THEORY OF GAUGE AND GRAVITATIONAL FIELDS (MCS-7801460 A01)*; 12 MONTHS $7,843

TROMBI, P; *HARMONIC ANALYSIS ON REAL SEMI-SIMPLE LIE GROUPS (MCS-7801826 A02)*; 12 MONTHS $44,400

HOPPENSTEADT, FRANK C; *MATHEMATICAL METHODS FOR BIOLOGICAL RHYTHMS AND POPULATION GENETICS (MCS-7805985 A01)*; 12 MONTHS $17,733

HOPPENSTEADT, FRANK C; *MATHEMATICAL METHODS FOR BIOLOGICAL RHYTHMS AND POPULATION GENETICS (MCS-7805985 A02)*; $3,500

KEENER, JAMES P; *INVESTIGATION OF DIFFUSION REACTION SYSTEMS (MCS-7902505 A01)*; 24 MONTHS $28,983

TAYLOR, JOSEPH L; *HOMOLOGY AND HARMONIC ANALYSIS ON LIE GROUPS (MCS-7902747 A01)*; 12 MONTHS $17,100

SCHMITT, KLAUS; *BOUNDARY VALUE PROBLEMS FOR SYSTEMS OF NONLINEAR DIFFERENTIAL EQUATIONS (MCS-8001886)*; 24 MONTHS $31,500

STERN, RONALD J; *Z/2 HOMOLOGY 3-SPHERES AND THE 4-MANIFOLDS THEY BOUND (MCS-8002843)*; 24 MONTHS $22,400

HOPPENSTEADT, FRANK C; *MATHEMATICAL METHODS FOR BIOLOGICAL RHYTHMS AND POPULATION GENETICS (MCS-8015359)*; 12 MONTHS $30,248

UTAH STATE UNIVERSITY

ANDERSON, IAN M; *THE INVERSE PROBLEM IN THE CALCULUS OF VARIATIONS (MCS-8002328)*; 12 MONTHS $8,280

VIRGINIA

GEORGE MASON UNIVERSITY

RICE, MICHAEL D; *GEOMETRIC ASPECTS OF THE EXTENSION AND APPROXIMATION OF UNIFORMLY CONTINUOUS MAPPINGS (MCS-8002778)*; 24 MONTHS $17,670

UNIVERSITY OF VIRGINIA

HERBST, IRA W; *MATHEMATICAL PHYSICS: ANALYSIS OF OPERATORS IN HILBERT SPACE (MCS-7800101 A02)*; 12 MONTHS $8,958

ROSENBLUM, MARVIN; *OPERATOR THEORY AND ANALYSIS (MCS-7800408 A02)*; 12 MONTHS $26,173

HOWLAND, JAMES S, AND PITT, LOREN D; *QUANTUM MECHANICAL SCATTERING AND GAUSSIAN FIELDS (MCS-7902490 A01)*; 12 MONTHS $43,254

CARTER, DAVID W; *ALGEBRAIC K-THEORY OF INTEGRAL GROUP RINGS (MCS-7904422 A01)*; 24 MONTHS $14,100

SIMMONDS, JAMES G; *CRACKS AND SEVERE MOTIONS OF THIN-WALLED, ELASTIC STRUCTURES (MCS-7927135*)*; 12 MONTHS $12,431

ASSADI, AMIR H; *TRANSFORMATON GROUPS (MCS-8001959)*; 12 MONTHS $7,061

MCCRIMMON, KEVIN M, AND WARD, HAROLD N; *GROUP THEORY AND JORDAN ALGEBRAS (MCS-8002119)*; 12 MONTHS $49,500

HARRINGTON, DAVID P; *NONPARAMETRIC STATISTICAL PROCEDURES FOR ONE AND TWO SAMPLES OF CENSORED FAILURE TIME DATA (MCS-8002887*)*; 12 MONTHS $5,000

VIRGINIA POLYTECHNIC INSTITUTE

QUINN, FRANK S; *ENDS OF MAPS, AND GROUP ACTIONS ON MANIFOLDS (MCS-7802205 A01)*; 24 MONTHS $32,190

TYSON, JOHN J; *THEORETICAL STUDIES OF SOME BIOLOGICAL REGULATORY SYSTEMS (MCS-7919787*)*; 24 MONTHS $8,631

FARKAS, DANIEL, GREEN, EDWARD L, AND SNIDER, ROBERT L; *REPRESENTATIONS OF GROUPS AND ALGEBRAS (MCS-8001543)*; 12 MONTHS $18,900

WASHINGTON

INDIVIDUAL AWARD

WOLFF, THOMAS H; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017153)*; 12 MONTHS $17,000

UNIVERSITY OF WASHINGTON

MARSHALL, DONALD E, AND WOLFF, THOMAS H; *BOUNDED ANALYTIC AND BOUNDED HARMONIC FUNCTIONS (MCS-7701873 A01)*; 24 MONTHS $24,260

LIND, DOUGLAS A; *TOPICS IN ERGODIC THEORY (MCS-7704915 A01)*; 24 MONTHS $21,359

STOUT, EDGAR L, AND MORROW, JAMES A; *STUDIES IN COMPLEX ANALYSIS (MCS-7802139 A02)*; 12 MONTHS $27,172

KOTTWITZ, ROBERT E; *ORBITAL INTEGRALS AND SHIMURA VARIETIES (MCS-7802331 A01)*; 24 MONTHS $16,100

ERICKSON, K B, AND BASS, RICHARD; *TOPICS IN STOCHASTIC PROCESSES (MCS-7802858 A01)*; 24 MONTHS $39,172

PYKE, RONALD, AND SHORACK, GALEN R; *STOCHASTIC PROCESSES AND RELATED PROBLEMS IN STATISTICAL INFERENCE (MCS-7809858 A02)*; 12 MONTHS $36,721

WARFIELD, ROBERT B; *STRUCTURE OF RINGS AND MODULES (MCS-7903073 A01)*; 12 MONTHS $13,500

BALLARD, JOHN W; *GROUPS AND HOPF ALGEBRAS (MCS-7903089 A01)*; 12 MONTHS $8,000

ARSOVE, MAYNARD G; *ALGEBRAIC POTENTIAL THEORY (MCS-7903342 A01)*; 12 MONTHS $14,071

GLICKSBERG, IRVING; *HARMONIC ANALYSIS AND BANACH ALGEBRAS (MCS-7905035 A01)*; 12 MONTHS $24,600

MORROW, JAMES A; *PACIFIC NORTHWEST GEOMETRY SEMINAR SERIES: 1980-1982 (MCS-7920122)*; 36 MONTHS $4,140

PETERSON, ARTHUR V, AND KRONMAL, RICHARD A; *EFFICIENT GENERATION OF RANDOM VARIABLES FROM AN ARBITRARY PROBABILITY DISTRIBUTION (MCS-7924382*)*; 24 MONTHS $26,714

GRUNBAUM, BRANKO; *COMBINATORIAL GEOMETRY (MCS-8001570)*; 12 MONTHS $22,500

PERLMAN, MICHAEL D; *MULTIVARIATE STATISTICAL ANALYSIS (MCS-8002167)*; 12 MONTHS $22,202

KOBLITZ, NEAL I; *P-ADIC SPECIAL FUNCTIONS (MCS-8002271)*; 24 MONTHS $18,500

OSBORNE, M SCOTT, AND WARNER, GARTH W; *EISENSTEIN SERIES (MCS-8002524)*; 12 MONTHS $25,940

HEWITT, EDWIN; *INVESTIGATIONS IN FUNCTIONAL ANALYSIS (MCS-8002329)*; 24 MONTHS $49,943

MICHAEL, ERNEST A; *ABSTRACT SPACES (MCS-8002767)*; 12 MONTHS $17,432

MILLER, HAYNES R; *COMPLEX BORDISM AND INFINITE LOOP SPACE THEORY (MCS-8002780)*; 12 MONTHS $8,149

DURFEE, ALAN H; *SINGULARITIES OF ALGEBRAIC VARIETIES (MCS-8002829)*; 12 MONTHS $8,299

GANGOLLI, RAMESH A; *ANALYSIS AND PROBABILITY THEORY (MCS-8003618)*; 12 MONTHS $18,335

WASHINGTON STATE UNIVERSITY

KALLAHER, MICHAEL J, AND OSTROM, THEODORE G; *TRANSLATION PLANES (MCS-7826535 A01)*; 12 MONTHS $30,570

MARSAGLIA, GEORGE; *THE GENERATION AND USE OF RANDOM VARIABLES IN COMPUTERS (MCS-8005789*)*; 24 MONTHS $24,933

WISCONSIN

INDIVIDUAL AWARD

GARITY, DENNIS J; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017156)*; 12 MONTHS $17,090

UNIVERSITY OF WISCONSIN SYSTEM OFFICE

HELLERSTEIN, SIMON; *ASYMPTOTIC PROBLEMS IN FUNCTION THEORY AND INTEGRODIFFERENTIAL EQUATIONS (MCS-8003108)*; 12 MONTHS $25,700

UNIVERSITY OF WISCONSIN-MADISON

SCHNEIDER, HANS; *MATRIX AND COMBINATORIAL THEORY (MCS-7801087 A02)*; 12 MONTHS $28,000

CHOVER, JOSHUA, AND GRIFFEATH, DAVID S; *PROBABILITY THEORY AND RELATED ANALYSIS (MCS-7801241 A02)*; 12 MONTHS $22,500

NEY, PETER E; *STOCHASTIC MODELS FOR THE GROWTH AND MOVEMENT OF POPULATIONS (MCS-7801348 A02)*; 12 MONTHS $37,300

ORLIK, PETER; *THE TOPOLOGY OF REFLECTION GROUPS (MCS-7801451 A01)*; 24 MONTHS $25,500

RUDIN, WALTER; *SEVERAL COMPLEX VARIABLES AND HARMONIC ANALYSIS (MCS-7806860 A02)*; 12 MONTHS $66,400

ASKEY, RICHARD A; *SPECIAL FUNCTIONS AND APPROXIMATIONS (MCS-7807244 A03)*; 12 MONTHS $51,181

ROTHSCHILD, LINDA P; *EXISTENCE AND SMOOTHNESS OF SOLUTIONS OF SOME LINEAR PARTIAL DIFFERENTIAL EQUATIONS (MCS-7907647 A01)*; 24 MONTHS $19,939

MCMILLAN JR, DANIEL R; *GEOMETRIC TOPOLOGY (MCS-7819611 A01)*; 24 MONTHS $15,200

KEISLER, H-JEROME; *MATHEMATICAL LOGIC AND FOUNDATIONS (MCS-7900824 A01)*; 12 MONTHS $36,100

LEVY, LAWRENCE S; *INTEGRAL REPRESENTATIONS, MODULES, AND LINEAR ALGEBRA (MCS-7903165 A01)*; 12 MONTHS $11,400

TURNER, ROBERT E L; *SOME QUESTIONS IN NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS AND NONLINEAR FUNCTIONAL ANALYSIS ARISING IN HYDRODYNAMICS (MCS-7904426 A01)*; 24 MONTHS $25,312

NOHEL, JOHN A; *POSTDOCTORAL INTERDISCIPLINARY RESEARCH IN THE MATHEMATICAL SCIENCES (MCS-7927062)*; 12 MONTHS $110,000

LEVIN, JACOB J; *NONLINEAR INTEGRAL AND DELAY EQUATIONS (MCS-8001524)*; 12 MONTHS $15,800

KUELBS, JAMES; *PROBABILITY MEASURES ON VECTOR SPACES: BASIC RESULTS AND APPLICATIONS (MCS-8001596)*; 12 MONTHS $13,000

CONLEY, CHARLES C; *GLOBAL AND ASYMPTOTIC PROBLEMS IN DIFFERENTIAL EQUATIONS (MCS-8001816)*; 12 MONTHS $15,722

MEYER, RICHARD E, AND SHEN, MEI-CH'AN; *DEVELOPMENT AND APPLICATION OF MATHEMATICAL METHODS FOR THE SCIENCES (MCS-8001960)*; 12 MONTHS $51,596

WAINGER, STEPHEN; *SINGULAR INTEGRALS AND AVERAGES OF FUNCTIONS (MCS-8002178)*; 12 MONTHS $14,590

RIDER, DANIEL G; *HARMONIC ANALYSIS (MCS-8002235)*; 24 MONTHS $24,870

OSBORN, J M, AND BENKART, GEORGIA M; *NONASSOCIATIVE ALGEBRAS (MCS-8002765)*; 24 MONTHS $47,500

SOLOMON, LOUIS; *GROUP THEORY (MCS-8002779)*; 12 MONTHS $40,800

CRANDALL, MICHAEL G; *PROBLEMS IN NONLINEAR EVOLUTION (MCS-8002946)*; 24 MONTHS $15,403

RATCLIFFE, JOHN G; *LOW DIMENSIONAL HOMOTOPY THEORY (MCS-8003044)*; 24 MONTHS $16,383

MEYER, RICHARD E; *A SYMPOSIUM ON TRANSITION AND TURBULENCE, OCTOBER 13-15, 1980, UNIVERSITY OF WISCONSIN, MADISON (MCS-8006171)*; 6 MONTHS $6,000

PHYSICS

ALABAMA

UNIVERSITY OF ALABAMA IN HUNTSVILLE

GREGORY, J C; *JAPANESE-AMERICAN COOPERATIVE EXPERIMENT TO STUDY THE NUCLEAR INTERACTIONS, CHARGE COMPOSITION AND ENERGY SPECTRA OF COSMIC RAYS AT ENERGIES UP TO 10.14 EV (PHY-8006934)*; 12 MONTHS $18,202

ARIZONA

INDIVIDUAL AWARD

COON, SIDNEY A; *MESONIC EFFECTS IN NUCLEI AND NUCLEAR MATTER (PHY-8009527*)*; 24 MONTHS $19,700

UNIVERSITY OF ARIZONA

KOHLER, H S, AND BARRETT, BRUCE R; *NUCLEAR THEORY (PHY-7902654 A01)*; 12 MONTHS $51,400

BOWEN, THEODORE, JENKINS, EDGAR W, AND KALBACH, ROBERT M; *ELEMENTARY PARTICLE RESEARCH WITH COUNTERS AND TRACK CHAMBERS (PHY-7908641 A01)*; $16,800

BOWEN, THEODORE, KALBACH, ROBERT M, AND JENKINS, EDGAR W; *ELEMENTARY PARTICLE RESEARCH WITH COUNTERS AND TRACK CHAMBERS (PHY-7908641 A02)*; $30,115

BOWEN, THEODORE, JENKINS, EDGAR W, AND KALBACH, ROBERT M; *ELEMENTARY PARTICLE RESEARCH WITH COUNTERS AND TRACK CHAMBERS (PHY-7908641 A03)*; 12 MONTHS $159,883

WING, WILLIAM H; *MODERN SPECTROSCOPY AND COLLISION STUDIES OF FUNDAMENTAL ATOMIC AND MOLECULAR SYSTEMS (PHY-7915302)*; 12 MONTHS $140,000

PATRASCIOIU, ADRIAN; *STRONG INTERACTIONS OF QUARKS AND GLUONS (PHY-8006192)*; 24 MONTHS $23,275

THEWS, ROBERT L; *STRUCTURE FUNCTIONS AND POLARIZATION FROM QCD SUBPROCESSES (PHY-8008225)*; 24 MONTHS $12,000

HILL, HENRY A; *EXPERIMENTAL RELATIVITY BY DAYTIME ASTROMETRY AT SCLERA (PHY-8008839)*; 12 MONTHS $77,169

BASHKIN, STANLEY, AND LEAVITT, JOHN A; *BEAM-FOIL EXPERIMENTS WITH HEAVY IONS (PHY-8015680)*; 12 MONTHS $65,000

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

HUGHES, R H, AND ANDERSON, RICHARD J; *A LASER-GENERATED FAST-PULSE HEAVY-ION SOURCE (PHY-7825988 A01)*; 12 MONTHS $55,000

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

BARNES, CHARLES A; *PURCHASE AND INSTALLATION OF A HIGH CURRENT, HIGH STABILITY ACCELERATOR (PHY-7710134 A01)*; 12 MONTHS $400,000

KOONIN, STEVEN E; *THEORETICAL NUCLEAR PHYSICS (PHY-7721602 A01)*; 12 MONTHS $46,481

MERCEREAU, JAMES E; *HIGH POWER SURFACE RESISTANCE AND CRITICAL MICROWAVE FIELDS OF TYPE I AND TYPE II SUPERCONDUCTORS FOR MICROWAVE RESONATORS (PHY-7909773 A01)*; $150,000

DREVER, RONALD W; *INVESTIGATIONS IN EXPERIMENTAL GRAVITY AND GRAVITATIONAL RADIATION (PHY-7912905 A01)*; 12 MONTHS $370,416

TOMBRELLO, THOMAS A; *NUCLEAR PHYSICS AND RELATED RESEARCH IN ASTROPHYSICS AND GEOPHYSICS AND TECHNOLOGY (PHY-7923638)*; 12 MONTHS $1,210,000

TOMBRELLO, THOMAS A; *NUCLEAR PHYSICS AND RELATED RESEARCH IN ASTROPHYSICS, GEOPHYSICS AND TECHNOLOGY (PHY-7923638 A01*)*; $6,450

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

EPSTEIN, MARTIN B, AND MARGAZIOTIS, D J; *PROTON INDUCED REACTIONS ON HELIUM 3 AND OXYGEN 16 AT INTERMEDIATE ENERGIES (PHY-7925221)*; 12 MONTHS $52,000

JET PROPULSION LABORATORY

TRAJMAR, SANDOR; *ELECTRON SCATTERING BY LASER EXCITED ATOMS (PHY-7905971 A01*)*; 12 MONTHS $20,179

LAWRENCE BERKELEY LABORATORY

KELLY, ROBERT L; *BERKELEY PARTICLE DATA CENTER (PHY-7812290 A01)*; 12 MONTHS $38,750

MULLER, RICHARD A; *ISOTOPE DATING WITH A CYCLOTRON (PHY-7813039 A01)*; 12 MONTHS $88,500

RASMUSSEN, JOHN O; *1980 INTERNATIONAL CONFERENCE ON NUCLEAR PHYSICS, BERKELEY, CALIFORNIA; AUGUST 24-30, 1980 (PHY-8007629*)*; 12 MONTHS $32,500

LOCKHEED MISSILES AND SPACE COMPANY INC

PRONKO, JOHN, AND KOHLER, D A; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH/ACTIVITY: SEARCH FOR SECOND-CLASS CURRENTS IN NUCLEAR BETA DECAY (PHY-7800855 A02*)*; 2 MONTHS $16,011

SRI INTERNATIONAL

SMITH, FELIX T, GILLEN, KEITH T, AND COGGIOLA, MICHAEL J; *COLLISION PROCESSES INVOLVING EXCITED ATOMS (PHY-7809647 A02)*; 12 MONTHS $77,994

GALLAGHER, THOMAS F; *RYDBERG STATES OF ALKALINE EARTH ATOMS (PHY-8007041)*; 12 MONTHS $58,200

STANFORD UNIVERSITY

HANNA, STANLEY S, AND MEYERHOF, WALTER E; *NUCLEAR SCIENCE STUDIES WITH A 16-MEV TANDEM VAN DE GRAAFF ACCELERATOR (PHY-7724631 A03*)*; 12 MONTHS $612,000

EVERITT, CHARLES W; *A CRYOGENIC EQUIVALENCE PRINCIPLE EXPERIMENT (PHY-7823006 A01)*; 12 MONTHS $86,722

SCHAWLOW, ARTHUR L; *PRECISION OPTICAL WAVE METERS (PHY-7823532 A01*)*; 12 MONTHS $15,000

SUSSKIND, LEONARD; *RESEARCH IN THEORETICAL ELEMENTARY PHYSICS (PHY-7826847 A01)*; 12 MONTHS $94,604

FAIRBANK, WILLIAM M; *SEARCH FOR FRACTIONAL CHARGE USING LOW TEMPERATURE TECHNIQUES (PHY-7900024 A01)*; 12 MONTHS $130,012

YEARIAN, MASON R, SCHWETTMAN, H A, AND HANNA, STANLEY S; *DEVELOPMENT AND TESTING OF A SUPERCONDUCTING ELECTRON ACCELERATOR WITH RECIRCULATION OF THE BEAM, AND NUCLEAR PHYSICS EXPERIMENTATION (PHY-7905286 A02)*; 12 MONTHS $2,050,000

ZARE, RICHARD N; *SYNCHROTRON RADIATION AS A PROBE OF ATOMIC AND MOLECULAR PROCESSES (PHY-7908624 A01*)*; 12 MONTHS $49,400

BYER, ROBERT L; *MOLECULAR BEAM CARS SPECTROSCOPY (PHY-7912673 A01)*; 12 MONTHS $57,000

WALECKA, JOHN D; *STUDIES IN THEORETICAL PHYSICS (PHY-7918046 A01)*; 9 MONTHS $75,000

HOFSTADTER, ROBERT; *STUDY OF RARE MUON DECAYS (PHY-7918680)*; 12 MONTHS $97,400

WOJCICKI, STANLEY G; *HIGH ENERGY PHYSICS (PHY-7919259)*; 12 MONTHS $347,181

WAGONER, ROBERT V; *THEORETICAL STUDIES IN GRAVITATION AND ASTROPHYSICS (PHY-7920123)*; 12 MONTHS $79,867

SCHWARTZ, MELVIN; *HIGH ENERGY PHYSICS (PHY-8001640)*; 12 MONTHS $274,083

HOFSTADTER, ROBERT; *HIGH ENERGY PHYSICS PROGRAM (PHY-8002409)*; 12 MONTHS $327,600

SCHAWLOW, ARTHUR L, AND HANSCH, THEODOR W; *STUDIES IN SPECTROSCOPY AND QUANTUM ELECTRONICS (PHY-8010689)*; 12 MONTHS $316,500

FAIRBANK, WILLIAM M; *SEARCH FOR GRAVITATIONAL RADIATION USING LOW TEMPERATURE TECHNIQUES (PHY-8014184)*; 3 MONTHS $85,000

UNIVERSITY OF CALIFORNIA, BERKELEY

BINGHAM, HARRY H; *HIGH ENERGY PARTICLE PHYSICS (PHY-7702487 A04)*; 12 MONTHS $215,397

PRICE, P B; *MONOPOLE SEARCH (PEP-2 EXPERIMENT) (PHY-7824357 A01)*; 12 MONTHS $39,330

PRICE, P B; *MONOPOLE SEARCH (PEP-2 EXPERIMENT) (PHY-7824357 A02)*; $10,000

SACHS, RAINER K; *GENERAL RELATIVITY AND COSMOLOGY (PHY-7913146 A01)*; 12 MONTHS $48,500

MANDELSTAM, STANLEY, AND WICHMANN, EYVIND H; *PHYSICS: THEORY OF ELEMENTARY PARTICLES (PHY-7923251)*; 12 MONTHS $147,531

SAYKALLY, RICHARD J; *INFRARED LASER SPECTROSCOPY OF TRANSIENT SPECIES (CHE-8007042*)*; 12 MONTHS $15,000

UNIVERSITY OF CALIFORNIA, DAVIS

BRADY, F PAUL, AND ROMERO, JUAN L; *NEUTRON SCATTERING AND REACTIONS (PHY-7926282)*; 12 MONTHS $135,590

UNIVERSITY OF CALIFORNIA, IRVINE

CHEN, HERBERT H, AND REINES, FREDERICK; *NEUTRINO ELECTRON ELASTIC SCATTERING AT THE CLINTON P. ANDERSON MESON FACILITY AT LOS ALAMOS (PHY-7523206 A03)*; 12 MONTHS $295,000

NEWMAN, RILEY D; *TESTS FOR ANOMALOUS GRAVITATIONAL INTERACTIONS OF INTRINSIC SPIN, AND TORSION BALANCE DEVELOPMENT (PHY-7909103 A01)*; 12 MONTHS $40,000

SHAW, GORDON L, BANDER, MYRON, AND SILVERMAN, DENNIS J; *THEORETICAL STUDIES IN HIGH ENERGY PHYSICS (PHY-7910262 A01)*; 24 MONTHS $149,439

SHAW, GORDON L; *CONFERENCE ON RECENT DEVELOPMENT IN ELEMENTARY PARTICLE PHYSICS, IRVINE, CALIFORNIA, NOVEMBER 30 AND DECEMBER 1, 1979 (PHY-7918698)*; 6 MONTHS $3,490

RYNN, NATHAN, AND BOEHMER, HEINRICH; *BASIC RESEARCH IN PLASMA PHYSICS (PHY 8009800)*; 12 MONTHS $195,200

UNIVERSITY OF CALIFORNIA, LOS ANGELES

FRIED, BURTON D; *A THEORETICAL STUDY OF PLASMA PHYSICS (PHY-7712873 A03)*; 12 MONTHS $39,000

MOSZKOWSKI, STEVEN A, AND WONG, CHUN W; *THEORETICAL NUCLEAR PHYSICS (PHY-7815811 A01)*; 24 MONTHS $170,000

CORNWALL, JOHN M; *THEORETICAL HIGH ENERGY PHYSICS (PHY-7821502 A01)*; 12 MONTHS $166,005

DAWSON, JOHN M, AND TAJIMA, TOSHIKI; *COMPUTER SIMULATION OF PLASMAS (PHY-7901319 A01)*; 12 MONTHS $105,500

WONG, ALFRED Y, AND DIMONTE, GUY; *HIGHLY NONLINEAR PHENOMENA AND PHYSICS OF CONFINEMENT INDUSTRY/UNIVERSITY/ COOPERATIVE RESEARCH PROGRAM (PHY-7908480 A01*)*; 12 MONTHS $118,899

STENZEL, REINER L; *MAGNETIC TURBULENCE IN PLASMAS WITH MAGNETIC NULL POINTS (PHY-7923187)*; 12 MONTHS $80,000

SCHLEIN, PETER E; *PP AND PP HADRON PHYSICS AT THE CERN INTERSECTING STORAGE RINGS (PHY-7924766)*; 12 MONTHS $400,037

SCHLEIN, PETER E; *PP AND PP HADRON PHYSICS AT THE CERN INTERSECTING STORAGE RINGS (PHY-7924766 A01)*; $90,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-REVELLE COLLEGE

MALMBERG, JOHN H; *FUNDAMENTAL PROCESSES IN PLASMAS (PHY-8009326)*; 12 MONTHS $263,700

UNIVERSITY OF CALIFORNIA, SAN DIEGO

MASEK, GEORGE E; *AN EXPERIMENT TO OBSERVE TWO-PHOTON REACTIONS AT THE PEP FACILITY (PHY-7808987 A02)*; $200,030

SWANSON, ROBERT A; *EXPERIMENTAL RESEARCH IN THE PHYSICS OF ELEMENTARY PARTICLES (PHY-7810811 A03)*; $35,000

MASEK, GEORGE E; *HIGH ENERGY PHYSICS RESEARCH (PHY-7923770)*; 12 MONTHS $280,329

SWANSON, ROBERT A; *EXPERIMENTAL RESEARCH IN THE PHYSICS OF ELEMENTARY PARTICLES (PHY-8014185)*; 12 MONTHS $145,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

KOHN, WALTER, SUGAR, ROBERT L, SAWYER, RAYMOND F, SCALAPINO, DOUGLAS J, AND HARTLE, JAMES B; *INSTITUTE FOR THEORETICAL PHYSICS (PHY-7727084 A01*)*; 9 MONTHS $425,000

HARTLE, JAMES B; *GENERAL RELATIVITY AND RELATIVISTIC ASTROPHYSICS (PHY-7809620 A02)*; 12 MONTHS $83,319

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

NAUENBERG, MICHAEL; *THEORY OF PARTICLE PHYSICS AND PHASE TRANSITIONS (PHY-7822252 A01*)*; 12 MONTHS $92,000

UNIVERSITY OF SOUTHERN CALIFORNIA

LAMBROPOULOS, P; *NEW EFFECTS IN MULTIPHOTON ATOMIC AND MOLECULAR PROCESSES (PHY-7823812 A01)*; 12 MONTHS $47,071

COOKE, WILLIAM E; *STUDIES OF AUTOIONIZING STATES OF ALKALINE EARTH ATOMS (PHY-7916444)*; 12 MONTHS $40,032

CHANG, TU-NAN; *THEORY OF STRONG CONFIGURATION INTERACTION IN ATOMIC TRANSITION (PHY 8009146)*; 22 MONTHS $40,000

COLORADO

ASPEN CENTER FOR PHYSICS

ABRAHAMS, ELIHU, PINES, DAVID, CRONIN, JAMES W, AND CARRUTHERS, PETER C; *SUMMER WORKSHOP ON CRITICAL PROBLEMS IN PHYSICS AND ASTROPHYSICS (PHY-7903900 A01*)*; 12 MONTHS $68,000

UNIVERSITY OF COLORADO AT BOULDER

PHELPS, ARTHUR V, COOPER, JOHN, AND LINEBERGER, W; *RESEARCH IN ATOMIC & MOLECULAR PHYSICS & RELATED AREAS AT THE JOINT INSTITUTE FOR LABORATORY ASTROPHYSICS (PHY-7904928 A01)*; 12 MONTHS $920,000

CONNECTICUT

FAIRFIELD UNIVERSITY

HADJIMICHAEL, EVANGELOS; *INTERMEDIATE ENERGY PHYSICS (PHY-8009144)*; 24 MONTHS $27,000

UNIVERSITY OF CONNECTICUT

KESSEL, QUENTIN; *INNER-SHELL EXCITATIONS IN HEAVY ION-ATOM COLLISIONS (PHY-7806723 A02)*; 12 MONTHS $54,500

SMITH, WINTHROP W; *WORKSHOP ON ACCELERATOR-RELATED ATOMIC AND MOLECULAR SCIENCE, NEW LONDON, NEW HAMPSHIRE, JULY 28-30, 1980* (PHY-8019265); 6 MONTHS $5,000

YALE UNIVERSITY

WONG, SHEK-FU; *RESONANT PROCESSES IN ELECTRON SCATTERING* (PHY-7800526 A02); 12 MONTHS $87,500

BERNSTEIN, IRA B; *TOPICS IN THEORETICAL PLASMA PHYSICS* (PHY-7808433 A02); 12 MONTHS $25,775

HUGHES, VERNON W; *POSITRONIUM RESEARCH* (PHY-7815068 A01); 12 MONTHS $58,400

HUGHES, VERNON W, KOCH, PETER M, AND LUBELL, MICHAEL S; *FUNDAMENTAL SPECTROSCOPIC AND COLLISION STUDIES OF SIMPLE ATOMS* (PHY-7825655 A01); 12 MONTHS $94,200

LICHTEN, WILLIAM; *RADIO-FREQUENCY AND LASER SPECTROSCOPY OF BASIC MOLECULES* (PHY-7826138 A01); 12 MONTHS $68,442

EARDLEY, DOUGLAS M; *RELATIVISTIC ASTROPHYSICS AND GRAVITATION THEORY* (PHY-7916482 A01); 12 MONTHS $75,500

HERZENBERG, ARVID; *CALCULATIONS ON ELECTRON-MOLECULE SCATTERING* (PHY-7921995); 12 MONTHS $34,292

HINDS, EDWARD A, AND HUGHES, VERNON W; *MEASUREMENTS OF PARITY NONCONSERVATION IN HYDROGEN AND DEUTERIUM USING MICROWAVE TRANSITIONS IN THE 2S STATE* (PHY-7925353); 12 MONTHS $111,424

HERZENBERG, ARVID, AND HYMAN, HOWARD; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY. THEORETICAL INVESTIGATION OF ELECTRON IMPACT EXCITATION PROCESSES* (PHY-8005467*); 12 MONTHS $16,673

DELAWARE

FRANKLIN INSTITUTE-BARTOL RESEARCH FOUNDATION

GAISSER, THOMAS K; *A PROGRAM OF COSMIC RAY CALCULATIONS* (PHY-8008901); 12 MONTHS $49,964

DISTRICT OF COLUMBIA

AMERICAN UNIVERSITY

CHERTOK, BENSON T; *MEASUREMENT OF THE ELASTIC ELECTRON-NEUTRON CROSS SECTIONS* (PHY-7809378 A02); 12 MONTHS $260,000

CATHOLIC UNIVERSITY OF AMERICA

CRANNELL, HALL L, AND FAGG, L W; *NUCLEAR STRUCTURE WITH INTERMEDIATE ENERGY ELECTRONS AND PHOTONS* (PHY-7921968); 12 MONTHS $107,000

GEORGETOWN UNIVERSITY

LAMBERT, JAMES M, AND TREADO, PAUL A; *FEW BODY SYSTEMS. STRUCTURES AND MECHANISMS* (PHY-7923263); 12 MONTHS $32,463

FLORIDA

FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY

GREENFIELD, MARK B; *MEDIUM ENERGY NUCLEAR PHYSICS RESEARCH AT LAMPF AND IUCF* (PHY-7902868 A01); $19,400

FLORIDA STATE UNIVERSITY

PETROVICH, FRED, AND PHILPOTT, R J; *MICROSCOPIC THEORY OF NUCLEAR REACTIONS* (PHY-7826370 A01); 12 MONTHS $62,700

SHELINE, RAYMOND K; *EXPERIMENTAL AND THEORETICAL TESTS OF NUCLEAR MODELS* (PHY-7908395 A01); 12 MONTHS $75,000

FOX, JOHN D; *NUCLEAR REACTIONS AND STRUCTURE* (PHY-8005174); 12 MONTHS $468,000

FOX, JOHN D; *NUCLEAR REACTIONS AND STRUCTURE* (PHY-8005174 A01); $41,500

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

FOX, RONALD F; *FLUCTUATION PHENOMENA IN THERMAL PHYSICS* (PHY-7921541); 24 MONTHS $26,754

HARTER, WILLIAM G; *THEORY OF HIGH RESOLUTION MOLECULAR SPECTRA* (PHY-7927098); 24 MONTHS $21,209

LANG, TUNIS P, AND TINONS, AHRENS; *LOW ENERGY EXPERIMENT TO MEASURE A WEAK COUPLING OF THE NEUTRINO CURRENT* (PHY-8002100); 12 MONTHS $127,535

FINKELSTEIN, DAVID; *QUANTUM TOPOLOGY* (PHY-8007921); 24 MONTHS $31,450

GEORGIA STATE UNIVERSITY

MANSON, STEVEN T; *THEORETICAL STUDIES OF THE INTERACTION OF RADIATION WITH MATTER* (PHY-7680123 A01); 24 MONTHS $28,564

UNIVERSITY OF GEORGIA

SCOTT, ALAN, AND BAKER, F D; *NUCLEAR STRUCTURE AND REACTION MECHANISMS* (PHY-7807755 A02); 12 MONTHS $60,000

ILLINOIS

DEPARTMENT OF ENERGY-CHICAGO OPERATIONS OFFICE

COX, BRADLEY; *A STUDY OF ANTIPROTON-NUCLEON INTERACTIONS IN THE P-WEST HIGH INTENSITY LABORATORY* (PHY-8004631*); 36 MONTHS $16,665

ILLINOIS INSTITUTE OF TECHNOLOGY

ERNST, FREDERICK J, AND HAUSER, ISIDORE; *SEARCH FOR AND ANALYSIS OF EXACT SOLUTIONS OF EINSTEIN'S FIELD EQUATIONS* (PHY-7908627 A01); 24 MONTHS $43,894

BURNSTEIN, RAY A; *PROPERTIES OF ELEMENTARY PARTICLES - NEUTRINO INTERACTIONS ON NEUTRONS AND PROTONS* (PHY-7913791 A01); 12 MONTHS $88,500

TUNG, WU-KI, AND JOHNSON, PORTER W; *THEORETICAL STUDIES IN ELEMENTARY PARTICLE PHYSICS* (PHY-8007438); 12 MONTHS $14,000

NORTHWESTERN UNIVERSITY

OAKES, ROBERT J; *ELEMENTARY PARTICLE THEORY* (PHY-7811607 A01); 24 MONTHS $17,000

SEGEL, RALPH E; *INTERMEDIATE ENERGY NUCLEAR RESEARCH* (PHY-7909270); 12 MONTHS $43,000

UNIVERSITY OF CHICAGO

COHEN, MORREL H, HERTZ, JOHN A, KADANOFF, L'O P, LEVIN, KATHRYN, AND MAZENKO, GENE F; *THEORETICAL SOLID STATE PHYSICS* (DMR-7713637 A02*); 12 MONTHS $23,500

CRONIN, JAMES W; *HIGH ENERGY PHYSICS* (PHY-7720810 A03); $200,000

CHANDRASEKHAR, S, GEROCH, ROBERT P, IPSER, JAMES R, AND WALD, ROBERT M; *GRAVITATIONAL PHYSICS AND RELATIVISTIC ASTROPHYSICS* (PHY-7824275 A01); 12 MONTHS $154,183

CHANDRASEKHAR, S, GEROCH, ROBERT P, IPSER, JAMES R, AND WALD, ROBERT M; *GRAVITATIONAL PHYSICS AND RELATIVISTIC ASTROPHYSICS* (PHY-7824275 A02); $3,487

ABELLA, ISAAC D; *LASER COHERENT TRANSIENT STUDIES IN PLASMAS* (PHY-7908639); 12 MONTHS $40,000

OEHME, REINHARD, NAMBU, YOICHIRO, AND FREUND, PETER G; *THEORETICAL RESEARCH IN ELEMENTARY PARTICLE PHYSICS* (PHY-7923669); 12 MONTHS $190,000

CRONIN, JAMES W; *ELEMENTARY PARTICLE PHYSICS* (PHY-8002441); 12 MONTHS $1,400,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

MCLEOD, D W, ABRAMS, ROBERT, MARGULIES, S, GOLDBERG, HOWARD S, AND SOLOMON, JULIUS; *HADRON JETS WITH THE FERMILAB CALORIMETER - TRIGGERED MULTIPARTICLE SPECTROMETER* (PHY-7907452 A02); 12 MONTHS $151,679

RHODES, CHARLES K; *STUDIES OF TWO-PHOTON EXCITATION AND COLLISIONAL PROCESSES IN MOLECULAR HYDROGEN AND OTHER SIMPLE ATOMIC AND MOLECULAR SYSTEMS* (PHY-7827610 A01); 12 MONTHS $79,500

RHODES, CHARLES K; *STUDIES OF TWO-PHOTON EXCITATION AND COLLISIONAL PROCESSES IN MOLECULAR HYDROGEN AND OTHER SIMPLE ATOMIC AND MOLECULAR SYSTEMS* (PHY-7827610 A02*); $20,000

UNIVERSITY OF ILLINOIS AT URBANA

AXEL, PETER, AND HANSON, ALFRED O; *SUPERCONDUCTING ELECTRON ACCELERATORS AND NUCLEAR PHYSICS RESEARCH* (PHY-7727281 A03); 12 MONTHS $1,650,000

LAMB, DONALD Q, LAMB, FREDERICK, PETHICK, C J, AND PINES, DAVID; *ASTROPHYSICAL APPLICATIONS OF MICROSCOPIC AND MANY BODY PHYSICS* (PHY-7904404 A02); 12 MONTHS $163,800

FRAUENFELDER, HANS; *PARITY NONCONSERVATION IN THE STRONG INTERACTION* (PHY-7907751 A02); 12 MONTHS $63,400

BAYM, GORDON A, AND WORTIS, MICHAEL; *PROPERTIES OF SOLIDS AND MANY PARTICLE SYSTEMS* (DMR-7921069 A01*); 12 MONTHS $27,800

NAYFEH, MUNIR H; *RESONANCE IONIZATION SPECTROSCOPY OF ATOMS* (PHY-7825247 A01); 12 MONTHS $75,000

PANDHARIPANDE, V R; *MICROSCOPIC THEORY OF NUCLEI, NUCLEAR, AND NEUTRON STAR MATTER* (PHY-7825582 A01); 12 MONTHS $72,500

RAVENHALL, DAVID G, AND WYLD, HENRY W; *THEORETICAL PARTICLE AND NUCLEAR PHYSICS* (PHY-7900272 A01); 12 MONTHS $209,000

SMARR, LARRY L; *NUMERICAL, THEORETICAL, AND ASTROPHYSICAL RELATIVITY* (PHY-8001496); 12 MONTHS $28,538

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

POLLOCK, ROBERT E, MILLER, DANEIL W, BACHER, A D, DEVINS, D W, AND RICKEY, MARTIN E; *NUCLEAR STRUCTURE AND NUCLEAR PROCESSES AT INTERMEDIATE ENERGIES* (PHY-7822774 A02); 12 MONTHS $3,790,000

WALKER, GEORGE E, AND LONDERGAN, JOHN T; *A THEORETICAL STUDY OF NUCLEAR STRUCTURE AND INTERMEDIATE ENERGY NUCLEAR REACTIONS* (PHY-8007997); 12 MONTHS $65,850

PURDUE UNIVERSITY

SCHARENBERG, ROLF P; *RELATIVISTIC PROTON NUCLEUS COLLISIONS AND THE DETERMINATION OF NUCLEAR MOMENTS BY ACCELERATOR TECHNIQUES* (PHY-7721364 A02); 12 MONTHS $95,000

ANDREW, KENNETH L; *ATOMIC EMISSION SPECTROSCOPY* (PHY-7908644 A01); 12 MONTHS $53,800

SIMMS, PAUL C, AND RICKEY, FRANK A; *COLLECTIVE STRUCTURE OF MASS-100 NUCLEI* (PHY-7919187 A01); 12 MONTHS $85,000

KIM, YEONG E; *THEORETICAL INVESTIGATIONS IN NUCLEAR STRUCTURE AND REACTIONS* (PHY-8005370); 24 MONTHS $95,957

UNIVERSITY OF NOTRE DAME

KENNEY, V PAUL, BISWAS, NRIPENDRA N, CASON, NEAL M, AND SHEPHARD, WILLIAM D; *HIGH ENERGY ELEMENTARY PARTICLE PHYSICS* (PHY-7806722 A02); $90,000

POIRIER, JOHN A; *ELEMENTARY PARTICLE PHY[illegible]S* (PHY-7906103 A01); 12 MONTHS $150,000

MIHELICH, JOHN W, AND KOLATA, JAMES J; *ADDITION TO THE COMPUTER SYSTEM OF THE NUCLEAR STRUCTURE LABORATORY* (PHY-7924030); 12 MONTHS $73,275

BISWAS, NRIPENDRA N, CASON, NEAL M, KENNEY, V PAUL, AND SHEPHARD, WILLIAM D; *HIGH ENERGY ELEMENTARY PARTICLE PHYSICS* (PHY-8007627); 12 MONTHS $347,000

MIHELICH, JOHN W, DARDEN, SPERRY E, FUNK, EMERSON G, AND KOLATA, JAMES J; *NUCLEAR STRUCTURE RESEARCH* (PHY-8009214); 12 MONTHS $429,000

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

AMMAR, RAYMOND G, AND STUMP, ROBERT; *RESEARCH IN HIGH ENERGY PHYSICS* (PHY-7916467 A01); 16 MONTHS $214,318

KENTUCKY

UNIVERSITY OF KENTUCKY

MCELLISTREM, MARCUS T; *NEUTRON INDUCED AND NEUTRON EMITTING REACTIONS AND NUCLEAR STRUCTURE STUDIES* (PHY-7801209 A02); 12 MONTHS $115,000

MAC ADAM, KEITH B; *COLLISIONS OF IONS WITH HIGHLY EXCITED ATOMS* (PHY-8007689); 12 MONTHS $47,000

UNIVERSITY OF LOUISVILLE

KIELKOPF, JOHN F; *COLLISIONAL INTENSITY AND BROADENING EFFECTS ON ATOMIC SPECTRAL LINES* (PHY-8011655); 12 MONTHS $40,200

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

ZIMMERMAN, PETER D; *STUDY OF THE NUCLEAR RESPONSE IN DEEP INELASTIC ELECTRON SCATTERING AT INTERMEDIATE ENERGIES* (PHY-7906571 A01); 12 MONTHS $43,500

HAMILTON, WILLIAM O; *EXPERIMENTAL INVESTIGATIONS IN GRAVITATION* (PHY-7914603); 12 MONTHS $202,366

JONES, W V; *JAPANESE AMERICAN COOPERATIVE EXPERIMENT TO STUDY THE NUCLEAR INTERACTIONS, CHARGE COMPOSITION, AND ENERGY SPECTRA OF COSMIC RAYS AT ENERGIES UP TO 10 14 EV* (PHY-8001189); 12 MONTHS $65,083

DRAAYER, JERRY P; *NUCLEAR STRUCTURE THEORY* (PHY-8010661); 24 MONTHS $27,000

TULANE UNIVERSITY

GOODMAN, ALAN L; *INTERNATIONAL CONFERENCE ON BAND STRUCTURE AND NUCLEAR DYNAMICS, NEW ORLEANS, LOUISIANA, FEBRUARY 28 MARCH 1, 1980* (PHY-7919918); 12 MONTHS $5,000

MARYLAND

JOHNS HOPKINS UNIVERSITY

PEVSNER, AIHUD; *HIGH ENERGY PARTICLE PHYSICS* (PHY-7806917 A03); 12 MONTHS $625,000

JUDD, BRIAN R, AND ARMSTRONG, LLOYD J; *THEORY OF ATOMIC STRUCTURE* (PHY-7921257); 12 MONTHS $64,700

NATIONAL BUREAU OF STANDARDS

MADDEN, ROBERT P; *INTERNATIONAL CONFERENCE ON VACUUM ULTRAVIOLET RADIATION PHYSICS, CHARLOTTESVILLE, VIRGINIA, JUNE 2 6, 1980* (PHY-8003054*); 12 MONTHS $5,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

ROOS, PHILIP G; *NUCLEAR PHYSICS RESEARCH PROGRAM, NUCLEAR SCIENCE AT THE CYCLOTRON LABORATORY* (PHY-7820749 A02); 6 MONTHS $235,000

BRILL, DIETER R; *THEORETICAL RESEARCH IN COSMOLOGY AND RELATIVITY* (PHY-7906940 A01); 12 MONTHS $86,403

ELLSWORTH, ROBERT W; *COSMIC RAY SPECTRA AND INVESTIGATION OF THE TIME STRUCTURE OF THE HADRONIC COMPONENTS OF AIR SHOWERS* (PHY-7909272 A01); 12 MONTHS $147,832

MISNER, CHARLES W; *THEORETICAL STUDIES OF GRAVITY* (PHY-7909281 A01*); 12 MONTHS $21,730

WEBER, JOE, DAVIS, WILLIAM S, PAIK, HOJUNG, AND RICHARD, JEAN PAUL; *RESEARCH AND DEVELOPMENT OF GRAVITATIONAL RADIATION ANTENNAS* (PHY-7911975 A01); $180,000

FERRELL, RICHARD A; *EIGHTEENTH ANNUAL EASTERN THEORETICAL PHYSICS CONFERENCE, NOVEMBER 16 17, 1979, COLLEGE PARK, MARYLAND* (PHY-7913006); 12 MONTHS $4,950

SUCHER, JOSEPH; *FOUNDATIONS OF RELATIVISTIC QUANTUM THEORY, INTERACTIONS OF HADRONS, AND ELECTROMAGNETIC INTERACTIONS OF ELEMENTARY SYSTEMS* (PHY-7923602); 12 MONTHS $75,400

GRIEM, HANS R, AND DESILVA, ALAN W; *PLASMA HEATING, LIGHT SCATTERING AND SPECTROSCOPY* (PHY-8002905); 12 MONTHS $126,000

BOYD, DEREK A, ELLIS, R F, AND LIU, CHUAN S; *HIGH TEMPERATURE PLASMAS* (PHY-8003367); 12 MONTHS $240,000

GREENBERG, OSCAR W, AND PATI, JOGESH C; *PARTICLE THEORY AND QUANTUM FIELD THEORY* (PHY-8007259); 12 MONTHS $99,100

REISER, MARTIN P; *GENERATION AND COLLECTIVE ACCELERATION OF HEAVY IONS* (PHY-8009895); 12 MONTHS $140,000

GINTER, MARSHALL L; *EXTENSION OF MULTICHANNEL QUANTUM DEFECT THEORY TO COMPLEX MULTILIMIT ELECTRONIC STRUCTURES* (PHY-8016857); 12 MONTHS $54,000

HU, BEI-LOK; *RESEARCH IN GENERAL RELATIVITY AND RELATIVISTIC COSMOLOGY* (PHY-8020947); 12 MONTHS $27,750

MASSACHUSETTS

BOSTON UNIVERSITY

MILLER, JAMES P, AND ROBERTS, BRADLEY L; *EXOTIC ATOM STUDIES* (PHY-7923778); 12 MONTHS $50,000

BOOTH, EDWARD C; *PHOTOPRODUCTION OF PIONS FROM COMPLEX NUCLEI* (PHY-8007967); 12 MONTHS $100,018

BRANDEIS UNIVERSITY

DESER, STANLEY; *SUPERGRAVITY, GENERAL RELATIVITY AND FIELD THEORY* (PHY-7809644 A02); 12 MONTHS $36,086

BERKO, STEPHAN, CANTER, KARL, AND CLARK, BRIAN O; *POSITRONIUM EXPERIMENTS* (PHY-7924702 A01); 12 MONTHS $56,897

GRISARU, M T; *THEORETICAL RESEARCH IN QUANTUM GRAVITY AND PARTICLE PHYSICS* (PHY-7920901); 24 MONTHS $55,394

HARVARD UNIVERSITY

WILSON, RICHARD; *EXPERIMENTS ON THE NUCLEON-NUCLEON FORCE, PARTICULARLY PARITY VIOLATION* (PHY-7211115 A03); $21,617

RAMSEY, NORMAN F; *MOLECULAR BEAM, HYDROGEN MASER AND STORED ATOM RESEARCH* (PHY-7719048 A04); $16,950

COLEMAN, SIDNEY R, GLASHOW, SHELDON L, AND WEINBERG, STEVEN; *INTERACTIONS OF PARTICLES AND FIELDS* (PHY-7722564 A02); 12 MONTHS $255,596

PIPKIN, FRANCIS M, AND LUNDEEN, STEPHEN R; *ATOMIC PHYSICS EXPERIMENTS USING FAST ATOMIC BEAMS* (PHY-7909657 A02); 12 MONTHS $120,000

JAFFE, ARTHUR M; *MATHEMATICAL PHYSICS* (PHY-7916812 A01*); 12 MONTHS $46,000

PRESS, WILLIAM H; *COSMOLOGY, RELATIVITY, AND THEORETICAL ASTROPHYSICS* (PHY-8007151); 12 MONTHS $68,128

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

KERMAN, ARTHUR K; *NUCLEAR COLLECTIVE PHENOMENA AND HEAVY ION COLLISIONS* (PHY-7801164 A01); 24 MONTHS $67,000

CHENG, HUNG; *PARTICLE THEORY* (PHY-7907450 A02); 12 MONTHS $68,852

PETTENGILL, GORDON H, AND SHAPIRO, IRWIN I; *TESTS OF THEORIES OF GRAVITATION* (PHY-7907760 A03); 12 MONTHS $163,000

FELD, MICHAEL S; *SUPERRADIANCE, NEW METHODS OF PRODUCTION AND DETAILED STUDIES OF NEW EFFECTS* (PHY-7918120 A01); 12 MONTHS $67,500

WEISS, RAINER; *INTERFEROMETRIC BROAD BAND GRAVITATIONAL ANTENNA* (PHY-7924274 A01); 12 MONTHS $142,750

EZEKIEL, SHAOUL; *EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF INTERACTION OF INTENSE RADIATION WITH ATOMS* (PHY-7909719 A02); 12 MONTHS $78,300

KLEPPNER, DANIEL, AND PRITCHARD, DAVID E; *ATOMIC AND MOLECULAR PHYSICS* (PHY-7909743 A01); 12 MONTHS $235,000

JAVAN, ALI; *INVESTIGATION OF ATOMIC AND MOLECULAR PROCESSES WITH MODERN PRECISION SPECTROSCOPY* (PHY-7914521 A02); 12 MONTHS $178,000

KLEPPNER, DANIEL; *SEVENTH INTERNATIONAL CONFERENCE ON ATOMIC PHYSICS, CAMBRIDGE, MASSACHUSETTS, AUTUST 4-8, 1981* (PHY-7921463); 12 MONTHS $10,000

NORTHEASTERN UNIVERSITY

GOLDBERG, HYMAN, AARON, RONALD, AND SRIVASTAVA, YOGENDRA; *ELEMENTARY PARTICLE THEORY* (PHY-7821532 A02); 12 MONTHS $83,517

VON GOELER, EBERHARD, AND WEINSTEIN, ROY; *ELEMENTARY PARTICLE PHYSICS EXPERIMENTS* (PHY-7920020); 12 MONTHS $225,109

VON GOELER, EBERHARD, AND WEINSTEIN, ROY; *ELEMENTARY PARTICLE PHYSICS EXPERIMENTS* (PHY-7920020 A01); $40,000

SRIVASTAVA, YOGENDRA; *ELEMENTARY PARTICLE THEORY* (PHY-7920697); 24 MONTHS $29,114

GETTNER, MARVIN, GOTTSCHALK, BERNARD, AND FAISSLER, WILLIAM; *EXPLORATORY FOR NEW PHYSICS AT PEP* (PHY-7920821); 12 MONTHS $155,028

GARELICK, DAVID, AND GLAUBMAN, MICHAEL J; *QUARKS AND LEPTONS* (PHY-7921980); 12 MONTHS $90,000

ARNOWITT, RICHARD, AND NATH, PRAN; *RESEARCH IN PARTICLE THEORY* (PHY-8008133); 24 MONTHS $80,000

SOUTHEASTERN MASSACHUSETTS UNIVERSITY

RUSSELL, JOHN J; *STUDY OF BARYONIUM STATES* (PHY-7813405 A02); $6,864

BAR-YAM, ZVI B, AND KERN, WOLFHARD; *HADRON SPECTROSCOPY* (PHY-7924579); 24 MONTHS $140,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

KREISLER, MICHAEL N, JENSEN, DOUGLAS, AND RABIN, MONROE S; *HIGH ENERGY PHYSICS SPARK CHAMBER PROGRAM* (PHY-7812997 A01); 12 MONTHS $250,000

BREHM, JOHN J, GOLOWICH, EUGENE, AND SWIFT, ARTHUR R; *ELEMENTARY PARTICLE THEORY* (PHY-7920442); 24 MONTHS $131,486

BREHM, JOHN J; *ELEMENTARY PARTICLE THEORY* (PHY-7920442 A01); $26,720

WILLIAMS COLLEGE

CRAMPTON, STUART B; *RESONANCE STUDIES OF FREE HYDROGEN ATOMS AT LIQUID HELIUM TEMPERATURES (PHY-7910967)*; 24 MONTHS $54,310

MICHIGAN

MICHIGAN STATE UNIVERSITY

CHEN, K W; *ELECTROMAGNETIC STRUCTURE OF NUCLEONS (PHY-7723565 A02)*; $6,500

SMITH, GERALD A; *HIGH ENERGY INTERACTIONS (PHY-7819759 A01)*; 12 MONTHS $334,883

BLOSSER, HENRY G, AND AUSTIN, SAM M; *RESEARCH WITH HEAVY IONS USING A 500 MEV SUPERCONDUCTING CYCLOTRON (PHY-7822698 A01)*; 12 MONTHS $1,900,000

PUMPLIN, JON C, AND REPKO, WAYNE W; *THEORETICAL STUDIES OF ELECTROMAGNETIC AND HADRONIC INTERACTIONS (PHY-7825129 A01)*; $5,500

ABOLINS, MARIS A; *STUDIES OF INTERACTIONS OF ELEMENTARY PARTICLES (PHY-7828071 A01)*; 12 MONTHS $240,000

ABOLINS, MARIS A; *STUDIES OF INTERACTIONS OF ELEMENTARY PARTICLES (PHY-7828071 A02)*; $15,000

BERTSCH, GEORGE F; *NUCLEAR SCATTERING AND STRUCTURE (PHY-7920554)*; 12 MONTHS $121,500

UNIVERSITY OF MICHIGAN

WEINREICH, GABRIEL; *DYNAMICS AND RADIATION FIELD OF MUSICAL INSTRUMENTS (PHY-7722953 A01)*; 12 MONTHS $68,600

RICH, ARTHUR, AND NEWMAN, DAVID E; *ELECTRON G-FACTOR ANOMALY AND RELATED EXPERIMENTS (PHY-7718017 A02)*; 12 MONTHS $110,000

RICH, ARTHUR, AND GIDLEY, DAVID W; *FUNDAMENTAL INVESTIGATIONS USING POSITRONS AND POSITRONIUM (PHY-7718139 A01)*; 12 MONTHS $61,500

JANECKE, JOACHIM W, AND BECCHETTI, FREDERICK D; *EXPERIMENTAL NUCLEAR SCIENCE (PHY-7807754 A02)*; 12 MONTHS $90,288

JANECKE, JOACHIM W, AND BECCHETTI, FREDERICK D; *EXPERIMENTAL NUCLEAR SCIENCE (PHY-7807754 A03)*; $15,000

SAVIT, ROBERT; *BASIC RESEARCH ON COOPERATIVE AND CRITICAL PHENOMENA IN FIELD THEORIES AND STATISTICAL SYSTEMS (PHY-7808426 A01)*; 12 MONTHS $33,323

JONES, LAWRENCE W; *ELEMENTARY PARTICLE PHYSICS (PHY-7909112 A01)*; $38,193

JONES, LAWRENCE W, LONGO, MICHAEL J, AND OVERSETH, OLIVER E; *ELEMENTARY PARTICLE PHYSICS (PHY-7909112 A02)*; 12 MONTHS $402,000

LEWIS, ROBERT R; *WEAK INTERACTIONS IN ATOMIC PHYSICS (PHY-7921560)*; 24 MONTHS $18,500

WILLIAMS, WILLIAM L, WIEMAN, CARL E, AND LEWIS, ROBERT R; *A SEARCH FOR NEUTRAL CURRENT INTERACTIONS IN ATOMIC H AND D (PHY-7925044)*; 12 MONTHS $127,212

WAYNE STATE UNIVERSITY

STEIN, TALBERT S, AND KAUPPILA, WALTER E; *EXPERIMENTAL STUDIES OF POSITRON SCATTERING BY ATOMS AND MOLECULES (PHY-8007994)*; 12 MONTHS $120,300

BERES, WILLIAM P; *THEORETICAL MICROSCOPIC STUDIES OF LOW ENERGY HEAVY ION REACTIONS (PHY-8008010)*; 24 MONTHS $29,000

MINNESOTA

UNIVERSITY OF MINNESOTA

FREIER, PHYLLIS S, AND WADDINGTON, C J; *CHARACTERISTICS OF VERY HIGH ENERGY NUCLEUS-NUCLEUS INTERACTIONS (PHY-7914539)*; 12 MONTHS $43,825

GREENLEES, GEORGE W; *OPTICAL HYPERFINE STRUCTURE AND ISOTOPIC SHIFT STUDIES (PHY-7921338)*; 12 MONTHS $75,000

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

WERNER, SAMUEL A; *NEUTRON SCHRODINGER WAVES (PHY-7920979*)*; 12 MONTHS $42,000

UNIVERSITY OF MISSOURI, ROLLA

PARK, JOHN T, PEACHER, JERRY L, SUTCLIFFE, VICTOR C, AND MARTIN, PETER J; *COINCIDENCE AUGMENTED DIFFERENTIAL ION ENERGY-LOSS SPECTROMETRY (PHY-7807907 A02)*; 12 MONTHS $92,500

MANUEL, OLIVER K; *NUCLEAR DOUBLE-BETA DECAY (PHY-7914175 A01)*; 12 MONTHS $36,000

UNIVERSITY OF MISSOURI, ST LOUIS

CHENG, TA PEI; *STUDIES IN QUANTUM FLAVORDYNAMICS (PHY-8003229)*; 24 MONTHS $27,953

WASHINGTON UNIVERSITY

CLARK, JOHN W; *MICROSCOPIC THEORY OF QUANTUM FLUIDS AND EXTENDED NUCLEAR SYSTEMS (DMR-8009129*)*; 12 MONTHS $20,000

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

RUDD, M E; *INELASTIC PROCESSES IN ATOMIC COLLISIONS (PHY-7727543 A02)*; 12 MONTHS $150,000

MACEK, JOSEPH; *ALIGNMENT AND ORIENTATION IN ATOMIC COLLISIONS (PHY-7906318 A01)*; 12 MONTHS $55,000

JONES, C E; *STUDY OF A TOPOLOGICAL APPROACH TO PARTICLE THEORY (PHY-8007643)*; 24 MONTHS $31,000

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

BALLING, LUDWIG C; *SPECTROSCOPY OF ALKALI ATOMS TRAPPED IN RARE-GAS MATRICES (PHY-8005511)*; 12 MONTHS $40,000

NEW JERSEY

INSTITUTE FOR ADVANCED STUDY

BAHCALL, JOHN N, AND DYSON, FREEMAN J; *THEORETICAL PHYSICS (PHY-7919884 A01)*; 12 MONTHS $168,300

PRINCETON UNIVERSITY

TREIMAN, SAM; *THEORETICAL PHYSICS (PHY-7801221 A03)*; 12 MONTHS $255,000

CALAPRICE, FRANK P, AND SHERR, RUBBY; *LOW ENERGY NUCLEAR PHYSICS (PHY-7801473 A02)*; 12 MONTHS $490,000

SIMON, BARRY M; *MATHEMATICAL PHYSICS (MCS-7801885 A03*)*; 12 MONTHS $17,551

WILKINSON, DAVID T; *GRAVITATION, RELATIVITY AND COSMOLOGY (PHY-7921595 A01)*; 12 MONTHS $262,393

LIEB, ELLIOTT; *STATISTICAL MECHANICS AND THE QUANTUM AND CLASSICAL MANY BODY PROBLEM (PHY-7925390 A01*)*; 12 MONTHS $55,851

COYNE, DONALD G, AND O'NEIL, GERARD K; *ELEMENTARY PARTICLE PHYSICS (PHY-7916461 A01)*; 12 MONTHS $230,000

RUTGERS UNIVERSITY

GOLDSTEIN, SHELDON; *STATISTICAL MECHANICS OF INFINITE SYSTEMS (PHY-7903816 A01)*; 24 MONTHS $18,110

DEVLIN, THOMAS J; *EXPERIMENTAL ELEMENTARY PARTICLE PHYSICS (PHY-7822015 A02)*; 12 MONTHS $205,000

PLANO, RICHARD J; *EXPERIMENTAL STUDIES OF THE STRONG AND WEAK INTERACTIONS (PHY-7822998 A01)*; 12 MONTHS $210,000

ZAMICK, LARRY, AND MEKJIAN, ARAM; *THEORETICAL NUCLEAR PHYSICS (PHY-7902961 A01)*; 12 MONTHS $74,500

WATTS, TERENCE L; *JETS IN HADRON COLLISIONS (PHY-7921359)*; 12 MONTHS $24,918

GLASHAUSSER, CHARLES; *ELASTIC AND INELASTIC SCATTERING OF INTERMEDIATE ENERGY PROTONS (PHY-7923223)*; 12 MONTHS $27,000

TEMMER, GEORGES M; *RESEARCH WITH TANDEM PARTICLE ACCELERATOR (PHY-7923340)*; 12 MONTHS $520,000

SANNES, FELIX R; *RESEARCH IN EXPERIMENTAL ELEMENTARY PARTICLE PHYSICS (PHY-7923620)*; 12 MONTHS $182,000

SPEER, EUGENE R; *QUANTUM FIELD THEORIES WITH INFINITELY MANY CONSERVED CURRENTS (PHY-8003298)*; 24 MONTHS $30,295

STEVENS INSTITUTE OF TECHNOLOGY

SEIDL, MILOS; *INTERACTION OF ELECTRONS AND IONS WITH PLASMA (PHY-7908555 A01)*; 12 MONTHS $133,000

NEW MEXICO

LOS ALAMOS SCIENTIFIC LABORATORY

OHLSEN, G G; *THE FIFTH INTERNATIONAL SYMPOSIUM ON POLARIZATION PHENOMENA IN NUCLEAR PHYSICS; THE LOS ALAMOS SCIENTIFIC LABORATORY; SANTA FE, NEW MEXICO; 11-15 AUGUST, 1980 (PHY-7924955)*; 12 MONTHS $5,000

UNIVERSITY OF NEW MEXICO

LINSLEY, JOHN; *MUON COMPONENT OF COSMIC-RAY SHOWERS AT ENERGIES ABOVE 10-17 EV (PHY-7719377 A02)*; 12 MONTHS $75,000

LINSLEY, JOHN; *MUON COMPONENT OF COSMIC-RAY SHOWERS AT ENERGIES ABOVE 10-17EV (PHY-7719377 A03)*; $11,336

NEW YORK

AMERICAN INSTITUTE OF PHYSICS

KOCH, H W, AND METZNER, A W; *PUBLICATION OF CHINESE PHYSICS (PHY-8011221*)*; 12 MONTHS $58,170

BROOKHAVEN NATIONAL LABORATORY

YUAN, LUKE C; *INVESTIGATION OF TRANSITION RADIATION DETECTORS AND THEIR APPLICATIONS (PHY-7916503*)*; 12 MONTHS $16,500

BROOKLYN COLLEGE

SHAKIN, CARL M; *THEORETICAL NUCLEAR PHYSICS (PHY-8004474)*; 12 MONTHS $53,000

FRANCO, VICTOR, HALPERN, ALVIN, AND THOMAS, BRIAN K; *THEORETICAL STUDIES OF ATOMIC COLLISIONS (PHY-8008535)*; 24 MONTHS $10,000

CITY COLLEGE

LINDENBAUM, SEYMOUR J; *RESONANCES UTILIZING MULTIPARTICLE SPECTROMETER (PHY-8009788)*; 12 MONTHS $64,971

COLUMBIA UNIVERSITY

WU, C S, DUGAN, GERALD, AND GROVES, JOEL L; *LOW ENERGY NUCLEAR PHYSICS, WEAK INTERACTIONS, AND MOON CAPTURE EXPERIMENTS (PHY-7723363 A02*)*; 12 MONTHS $300,017

RUDERMAN, MALVIN A, AND SPIEGEL, EDWARD A; *ELECTRODYNAMICAL AND FLUID DYNAMICAL PHENOMENA IN ASTROPHYSICS (PHY-7727084 A02)*; 12 MONTHS $126,219

BALTAY, CHARLES, LEDERMAN, LEON M, LEE, WONYONG, AND FRANZINI, PAOLO; *HIGH ENERGY PHYSICS* (PHY-7801364 A04; $200,000

BALTAY, CHARLES, LEE, WONYONG, AND FRANZINI, PAOLO; *HIGH ENERGY PHYSICS RESEARCH* (PHY-7920395; 12 MONTHS $2,063,000

SACHS, ALLAN M; *PRECISION MEASUREMENT OF VACUUM POLARIZATION IN MUONIC HELIUM TRANSITIONS* (PHY-7924605; 12 MONTHS $175,000

CORNELL UNIVERSITY

MCDANIEL, BOYCE D; *OPERATIONAL SUPPORT OF THE CORNELL ELECTRON STORAGE RING FACILITY* (PHY-6700052 A40; 12 MONTHS $4,200,000

MCDANIEL, BOYCE D; *OPERATIONAL SUPPORT OF THE CORNELL ELECTRON STORAGE RING FACILITY* (PHY-6700052 A41; $2,500,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

YENNIE, DONALD R, AND GOTTFRIED, KURT; *THEORETICAL ELEMENTARY PARTICLE PHYSICS* (PHY-7722336 A03; 12 MONTHS $323,200

HAND, LOUIS N; *SEARCH FOR SHORT-LIVED PARTICLES PRODUCED BY NEUTRINOS AND ANTI-NEUTRINOS* (PHY-7801389 A03; $35,000

HAND, LOUIS N; *SEARCH FOR SHORT-LIVED PARTICLES PRODUCED BY NEUTRINOS AND ANTI NEUTRINOS* (PHY-7801389 A04; 6 MONTHS $25,000

TEUKOLSKY, SAUL A; *BLACK HOLE PHYSICS AND RELATIVISTIC ASTROPHYSICS* (PHY-8007957; 12 MONTHS $44,500

INDIVIDUAL AWARD

TYE, SZE-HOI H; *THEORETICAL PARTICLE PHYSICS* (PHY-8020646; 3 MONTHS $3,869

NEW YORK UNIVERSITY

BRANDT, RICHARD A, LOWENSTEIN, JOHN H, SIRLIN, ALBERTO, AND ZWANZIGER, DANIEL; *PARTICLE PHYSICS INVESTIGATIONS* (PHY-7821503 A01; 12 MONTHS $149,400

STROKE, H H; *HIGH-RESOLUTION OPTICAL MEASUREMENTS, ATOMIC HYPERFINE STRUCTURE AND ISOTOPE SHIFT* (PHY-7909173 A01; $8,333

STROKE, H H; *HIGH-RESOLUTION OPTICAL MEASUREMENTS, ATOMIC HYPERFINE STRUCTURE AND ISOTOPE SHIFT* (PHY-7909173 A02; 12 MONTHS $107,100

SPRUCH, LARRY, AND ROSENBERG, LEONARD; *A THEORETICAL INVESTIGATION OF ATOMIC SCATTERING PROCESSES* (PHY-7910413 A01; 12 MONTHS $48,791

CHRISTENSON, JAMES H; *ELEMENTARY PARTICLE RESEARCH USING ELECTRONIC DETECTORS* (PHY-7922102; 12 MONTHS $254,873

BEDERSON, BENJAMIN; *ATOMIC INTERACTIONS WITH ELECTRONS AND FIELDS IN GROUND AND EXCITED STATES* (PHY-7926286; 12 MONTHS $115,900

BROWN, HOWARD H; *A STUDY OF HOMOGENEOUS STEADY STATE PLASMAS IN RF ELECTROMAGNETIC FIELDS* (PHY-8008002; 12 MONTHS $60,000

RENSSELAER POLYTECHNIC INSTITUTE

WINHOLD, E JOHN; *PHOTOPION REACTIONS IN COMPLEX NUCLEI* (PHY-8006954; 12 MONTHS $110,000

ROCKEFELLER UNIVERSITY

GLIMM, JAMES; *MATHEMATICS APPLIED TO THEORETICAL PHYSICS, ENGINEERING AND BIOLOGY* (PHY-8001979*; 24 MONTHS $50,000

STATE UNIVERSITY AT BUFFALO

DIMOCK, JONATHAN D; *SELECTED TOPICS IN MATHEMATICAL QUANTUM FIELD THEORY* (PHY-8001658; 24 MONTHS $24,000

STATE UNIVERSITY AT STONY BROOK

LEE, LINWOOD L, FOSSAN, DAVID B, AND PAUL, PETER; *OPERATION OF THE STONY BROOK NUCLEAR STRUCTURE LABORATORY* (PHY-7710192 A03; 3 MONTHS $325,000

LEE-FRANZINI, JULIET, AND ENGELMANN, RODERICH; *EXPERIMENTAL HADRON, PHOTON, AND LEPTON RESEARCH USING SPECTROMETER AND BUBBLE CHAMBER TECHNIQUES* (PHY-7819460 A02; $53,244

LEE-FRANZINI, JULIET, AND MC CARTHY, ROBERT; *EXPERIMENTAL HADRON, PHOTON, AND LEPTON RESEARCH USING SPECTROMETER AND BUBBLE CHAMBER TECHNIQUES* (PHY-7819460 A03; $49,790

YANG, CHEN NING; *THEORETICAL PHYSICS* (PHY-7906376 A01; 12 MONTHS $264,460

MC COY, BARRY; *MODEL SYSTEMS* (DMR-7908556 A01*; 12 MONTHS $6,500

PAUL, PETER, AND SPROUSE, GENE D; *DEVELOPMENT OF A SUPERCONDUCTING HEAVY-ION LINEAR ACCELERATOR* (PHY-7912300 A01; 12 MONTHS $1,050,020

METCALF, HAROLD; *TIME RESOLVED EXCITED STATE SPECTROSCOPY* (PHY-7916901*; 12 MONTHS $20,345

GOOD, MYRON L, GRANNIS, PAUL D, AND KIRZ, JANOS; *EXPERIMENTAL HIGH ENERGY PHYSICS RESEARCH USING COUNTER TECHNIQUES* (PHY-7916904 A01; 12 MONTHS $350,183

METCALF, HAROLD; *ADVANCED TECHNIQUES IN ATOMIC PHYSICS* (PHY-8006068; 12 MONTHS $70,906

YANG, CHEN NING; *THEORETICAL PHYSICS* (PHY-8009808; 24 MONTHS $108,719

LEE-FRANZINI, JULIET, AND MC CARTHY, ROBERT L; *EXPERIMENTAL HADRON, PHOTON AND LEPTON RESEARCH USING SPECTROMETERS* (PHY-8016899; 12 MONTHS $255,221

SYRACUSE UNIVERSITY

KALOGEROPOULOS , THEO E; *EXPERIMENTAL PARTICLE PHYSICS* (PHY-7804319 A02; 12 MONTHS $140,000

BERGMANN, PETER G, AND GOLDBERG, JOSHUA N; *GENERAL RELATIVITY* (PHY-7908887 A01; 12 MONTHS $22,886

GOLDBERG, MARVIN, HORWITZ, NAHMIN, AND MONETI, GIANCARLO; *EXPERIMENTAL ELEMENTARY PARTICLE PHYSICS* (PHY-7927139; 12 MONTHS $280,000

ASHTEKAR, ABHAY; *QUANTUM GENERAL RELATIVITY* (PHY-8008155; 12 MONTHS $93,400

UNIVERSITY OF ROCHESTER

MANDEL, LEONARD; *COHERENCE EFFECTS IN QUANTUM OPTICS* (PHY-7906349 A01; 12 MONTHS $69,700

THORNDIKE, EDWARD H, AND LOBKOWICZ, FREDERICK; *ELECTROMAGNETIC INTERACTIONS OF HADRONS* (PHY-7922078; 12 MONTHS $270,000

GOVE, HARRY E, AND CLINE, DOUGLAS; *OPERATION OF THE NUCLEAR STRUCTURE RESEARCH LABORATORY* (PHY-7923307; 12 MONTHS $925,000

DOUGLASS, DAVID H, AND JOHNSON, WARREN W; *EXPERIMENTAL STUDIES OF GRAVITATION* (PHY-8008896; 6 MONTHS $168,682

CLARK, DAVID L; *EQUIPMENT FOR ON-BEAM-LINE LASER MEASUREMENTS OF NUCLEAR PROPERTIES* (PHY-8017485; 12 MONTHS $34,500

NORTH CAROLINA

DUKE UNIVERSITY

ROBINSON, HUGH G; *HIGH RESOLUTION RF SPECTROSCOPY OF ATOMS AND IONS* (PHY-7722567 A01; $39,800

ROBINSON, HUGH G; *HIGH RESOLUTION RF SPECTROSCOPY OF ATOMS AND IONS* (PHY-8014737; 12 MONTHS $51,500

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

RISLEY, JOHN S; *FUNDAMENTAL STUDIES IN ATOMIC COLLISIONS* (PHY-8009198; 12 MONTHS $50,500

ARMSTRONG, CARTER M; *INVESTIGATION OF THE STABILITY OF A NONNEUTRAL PLASMA COLUMN* (PHY-8009678; 12 MONTHS $33,942

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

YORK, JAMES W; *FUNDAMENTAL PROBLEMS AND NEW APPLICATIONS OF GENERAL RELATIVITY* (PHY-8011298; 12 MONTHS $41,600

OHIO

CASE WESTERN RESERVE UNIVERSITY

BENADE, ARTHUR H; *ACOUSTICAL STUDIES OF WIND INSTRUMENTS* (PHY-7917180 A01; 14 MONTHS $73,100

ROBINSON, DONALD K AND FICKINGER, WILLIAM J; *EXPERIMENTAL HIGH ENERGY PHYSICS* (PHY-7921338 A02; 12 MONTHS $120,000

KOWALSKI, KENNETH L; *THEORETICAL STUDIES OF NUCLEAR REACTIONS AND SCATTERING* (PHY-7926585 A02; 12 MONTHS $90,500

BROWN, ROBERT W; *THEORETICAL ELEMENTARY PARTICLE PHYSICS* (PHY-8005548; 24 MONTHS $42,463

FOLDY, LESLIE L; *THEORETICAL STUDIES RELATED TO COMPOSITE PARTICLE SYSTEMS* (PHY-8010695; 18 MONTHS $41,500

KENT STATE UNIVERSITY-ASHTABULA REGIONAL CAMPUS

MCCARTHY, ROBERT J; *NUCLEAR THEORY* (PHY-7923210; 12 MONTHS $6,739

KENT STATE UNIVERSITY

TANDY, PETER C; *INTERACTIONS OF MEDIUM-ENERGY NUCLEONS AND DEUTERONS WITH NUCLEI* (PHY-7907511 A01; $10,502

MADEY, RICHARD; *NEUTRONS FROM INTERACTIONS OF MEDIUM-ENERGY PARTICLES WITH NUCLEI* (PHY-7907790 A01; $22,850

MADEY, RICHARD; *NEUTRONS FROM INTERACTIONS OF MEDIUM-ENERGY PARTICLES WITH NUCLEI* (PHY-7907790 A02; 12 MONTHS $70,000

OBERLIN COLLEGE

WARNER, ROBERT E; *NUCLEAR REACTION STUDIES IN LIGHT NUCLEI* (PHY-8001978; 24 MONTHS $18,200

OHIO STATE UNIVERSITY

BOYD, RICHARD N; *A PROGRAM OF RESEARCH USING LOW AND MEDIUM ENERGY NUCLEAR PHYSICS FACILITIES* (PHY-7927410 A01; 12 MONTHS $80,000

HAUSMAN, H J, DONOGHUE, T R, AND BLATT, S L; *NUCLEAR PHYSICS RESEARCH AT LOW AND INTERMEDIATE ENERGIES* (PHY-7909157 A01; 12 MONTHS $130,000

GERLACH, ULRICH; *SIGNAL AND NOISE GENERATION IN CURVED AND FLAT SPACE-TIMES* (PHY-7921358; 24 MONTHS $23,500

CLARK, B C; *TRI-STATE NUCLEAR THEORY CONFERENCE, COLUMBUS, OHIO, APRIL 4-5, 1990* (PHY-8006972; 6 MONTHS $1,400

OHIO UNIVERSITY

FINLAY, ROGER W, AND RAPAPORT, JACOBO; *ISOSPIN AND GIANT-RESONANCE EFFECTS IN NEUTRON SCATTERING AND NEUTRON-INDUCED CHARGED-PARTICLE REACTIONS* (PHY-7909911 A02; 12 MONTHS $90,600

RAPAPORT, JACOBO; *THE PROTON-NEUTRON CHARGE EXCHANGE REACTION AT INTERMEDIATE ENERGIES* (PHY-7920517; 12 MONTHS $25,200

KOSHEL, RICHARD D; *THEORY OF NUCLEAR REACTIONS* (PHY-8007316) 24 MONTHS $12,500

UNIVERSITY OF CINCINNATI

MEADOWS, BRIAN T; *HIGH ENERGY PHYSICS EXPERIMENTS AT BROOKHAVEN AND FERMILAB* (PHY-7905952 A01) 12 MONTHS $36,195

UNIVERSITY OF TOLEDO

SCHECHTMAN, RICHARD M; *INVESTIGATION OF THE ION-FOIL INTERACTION* (PHY-8005102) 12 MONTHS $9,000

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

OSBORNE, W Z; *MEASUREMENTS OF EVENTS PRODUCED BY ANTINEUTRINOS AND NEUTRINOS IN EMULSION* (PHY-7912206 A01) $9,545

OREGON

OREGON STATE UNIVERSITY

LANDAU, RUBIN H; *THEORETICAL STUDIES OF THE INTERACTIONS OF PIONS, NUCLEONS AND RELATIVISTIC HEAVY IONS WITH NUCLEI* (PHY-7918659 A02) $3,500

SWENSON, L W; *COLLABORATIVE RESEARCH ON NUCLEAR PHYSICS AT INTERMEDIATE ENERGIES* (PHY-7918403) 12 MONTHS $65,000

PORTLAND STATE UNIVERSITY

SZAFRON, DUANE A; *INTRINSIC SYMMETRIES IN INHOMOGENEOUS COSMOLOGIES* (PHY-7911923) 12 MONTHS $9,254

UNIVERSITY OF OREGON - EUGENE

MORAVCSIK, MICHAEL J; *INTERNATIONAL CONFERENCE ON THE FEW-BODY PROBLEM, EUGENE, OREGON, AUGUST 17-23, 1980* (PHY-7908514) 12 MONTHS $6,000

MC DANIELS, DAVID K; *COLLABORATIVE RESEARCH ON NUCLEAR PHYSICS AT INTERMEDIATE ENERGIES* (PHY-7921058) 12 MONTHS $50,000

LEFEVRE, HARLAN W; *NEUTRON PHYSICS* (PHY-7910071) 12 MONTHS $90,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

KISSLINGER, LEONARD S, AND SORENSEN, RAYMOND A; *THEORETICAL NUCLEAR PHYSICS* (PHY-7919757 A03) 12 MONTHS $115,450

SCHUMACHER, ROBERT T; *AUTONOMOUS OSCILLATIONS IN MUSICAL SOUNDS* (PHY-8007411) 12 MONTHS $19,911

DREXEL UNIVERSITY

LIM, TECK KAH; *THE FEW-BODY PROBLEM IN MOLECULAR PHYSICS* (PHY-7919375 A01) $5,900

FENG, VICTOR D; *STUDIES OF NUCLEAR THERMODYNAMICS AND NUCLEAR SHAPED PHASE TRANSITIONS* (PHY-7906402 A01) $5,000

LEHIGH UNIVERSITY

KIM, YONG W; *VELOCITY AUTOCORRELATION* (PHY-7908307 A01) 12 MONTHS $40,000

PENNSYLVANIA STATE UNIVERSITY

PAGE, D N; *INSTANTONS IN QUANTUM GRAVITY* (PHY-7918459) 24 MONTHS $17,226

TEMPLE UNIVERSITY

HAVAS, PETER; *GENERAL RELATIVITY AND ASTROPHYSICS* (PHY-8008210) 24 MONTHS $40,000

UNIVERSITY OF PENNSYLVANIA

AMADO, RALPH D, AND PRIMAKOFF, HENRY; *VARIOUS TOPICS IN THEORETICAL PHYSICS* (PHY-7911080 A03) 24 MONTHS $315,000

MIDDLETON, ROY, AND STEPHENS, WILLIAM E; *NUCLEAR RESEARCH WITH TANDEM ACCELERATOR* (PHY-7920819) 12 MONTHS $625,000

UNIVERSITY OF PITTSBURGH

PRATT, RICHARD H; *THEORY OF QUANTUM ELECTRODYNAMIC PROCESSES IN THE FIELD OF AN ATOM* (PHY-7936491 A01) 12 MONTHS $66,005

BARDSLEY, J NORMAN; *THEORETICAL STUDIES OF RESONANT SCATTERING IN ATOMIC PHYSICS* (PHY-7900957 A01) 12 MONTHS $30,917

BAYFIELD, JAMES E; *ATOMIC PROCESSES IN STRONG ELECTROMAGNETIC FIELDS* (PHY-7908031 A01) 12 MONTHS $94,700

AUSTERN, NORMAN, TABAKIN, FRANK, AND VINCENT, C M; *THEORETICAL STUDIES OF NUCLEAR STRUCTURE AND NUCLEAR REACTIONS* (PHY-7909743) 12 MONTHS $112,547

COHEN, BERNARD L, DARHNICK, WILFRIED W, SALADIN, JURG X, MAHER, JAMES V, AND MC GRUER, JAMES N; *NUCLEAR STRUCTURE, NUCLEAR REACTIONS, AND APPLICATIONS OF NUCLEAR SCIENCE* (PHY-7921108) 12 MONTHS $810,000

ENGELS, EUGENE, AND SHEPARD, PAUL F; *SEARCH FOR SHORT-LIVED PARTICLES PRODUCED BY NEUTRINOS AND ANTINEUTRINOS* (PHY-8001488) 12 MONTHS $44,974

JANIS, ALLEN I, NEWMAN, EZRA T, AND WINICOUR, JEFFREY H; *RADIATION PROBLEMS IN GENERAL RELATIVITY* (PHY-8008144) 24 MONTHS $136,716

NEWMAN, EZRA T, AND HSIEH, S H; *YANG-MILLS THEORIES OF GRAVITATION* (PHY-8010710) 12 MONTHS $30,340

RHODE ISLAND

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER; *1980 GORDON RESEARCH CONFERENCE ON PHOTONUCLEAR REACTIONS, AUGUST 18-22, 1980 AT TILTON, NEW HAMPSHIRE* (PHY-8015781) 6 MONTHS $5,000

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

FREEDOM, BARRY M; *PION-NUCLEUS REACTIONS AT LOW ENERGIES* (PHY-7710144 A02) $10,000

AVIGNONE, FRANK T; *HIGH RESOLUTION, HIGH ACCURACY PAIR PRODUCTION MEASUREMENTS NEAR THRESHOLD ENERGY* (PHY-7914985 A01) 12 MONTHS $15,394

FREEDOM, BARRY M; *STUDY OF NUCLEAR PHYSICS WITH INTERMEDIATE ENERGY PROBES* (PHY-8005945) 12 MONTHS $100,000

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

SELLIN, IVAN A; *HIGH VELOCITY COLLISIONS OF HIGHLY IONIZED IONS WITH ATOMS AND MOLECULES* (PHY-7907314 A01) 12 MONTHS $88,306

VANDERBILT UNIVERSITY

PANVINI, ROBERT S; *ELEMENTARY PARTICLE PHYSICS* (PHY-7914277) 12 MONTHS $350,000

PANVINI, ROBERT S; *ELEMENTARY PARTICLE PHYSICS* (PHY-7914277 A01) $105,392

ROOS, CHARLES E, AND WEBSTER, MEDFORD S; *HIGH FIELD BUBBLE CHAMBER AND MULTIPARTICLE SPECTROMETER EXPERIMENTS* (PHY-8001621) 12 MONTHS $199,997

PANVINI, ROBERT S; *INTERNATIONAL SYMPOSIUM ON HIGH ENERGY E+-E- INTERACTIONS, NASHVILLE, TENNESSEE, MAY 1-2, 1980* (PHY-8008062) 12 MONTHS $2,500

TEXAS

NORTH TEXAS STATE UNIVERSITY

DUGGAN, JEROME L; *SIXTH CONFERENCE ON THE APPLICATION OF ACCELERATORS IN RESEARCH AND INDUSTRY, DENTON, TEXAS, NOVEMBER 3-5, 1980* (PHY-8017256*) 12 MONTHS $9,000

RICE UNIVERSITY

STEBBINGS, RONALD F, AND DUNNING, F B; *COLLISION INVOLVING ATOMS IN HIGH RYDBERG STATES* (PHY-7909900 A03) 12 MONTHS $71,396

TEXAS A & M UNIVERSITY

YOUNGBLOOD, DAVE H; *CYCLOTRON-BASED NUCLEAR PHYSICS* (PHY-7720140 A02) 3 MONTHS $40,000

YOUNGBLOOD, DAVE H; *CYCLOTRON-BASED NUCLEAR PHYSICS* (PHY-7720140 A03) 9 MONTHS $225,000

CHURCH, DAVID A; *ANISOTROPY IN ION COLLISION EXCITATION* (PHY-7910016 A01) 12 MONTHS $54,700

SCHUESSLER, HANS A; *SPIN DEPENDENCE OF ION-ATOM COLLISIONS AND HYPERFINE STRUCTURE OF SIMPLE IONS BY REORIENTATION SPECTROSCOPY OF STORED IONS* (PHY-7908009 A01) 12 MONTHS $71,000

FORD, ALBERT L, AND READING, JOHN F; *ION-ATOM COLLISIONS* (PHY-7909140) 24 MONTHS $42,000

FULLING, STEPHEN A; *QUANTUM FIELD THEORY IN CURVED SPACE-TIME AND ITS MATHEMATICAL FOUNDATIONS* (PHY-7915129) 24 MONTHS $39,935

YOUNGBLOOD, DAVE H; *INTERNATIONAL SYMPOSIUM ON CONTINUUM SPECTRA OF HEAVY ION REACTIONS, SAN ANTONIO, TEXAS, DECEMBER 3-5, 1979* (PHY-7911384) 12 MONTHS $5,000

ERNST, DAVID J; *INTERMEDIATE ENERGY NUCLEAR THEORY* (PHY-8009147) 23 MONTHS $22,000

UNIV OF TEXAS AT AUSTIN

MATZNER, RICHARD A, AND DEWITT-MORETTE , CECILE; *PROBLEMS IN RELATIVITY AND PATH INTEGRATION* (PHY-7707619 A03) $4,500

DEWITT, BRYCE S; *THE ROLE OF GRAVITATION IN PHYSICS* (PHY-7721449 A03) 12 MONTHS $51,000

WHEELER, JOHN A, CANDELAS, PHILIP, AND SCIAMA, DENNIS W; *SPACETIME PHYSICS* (PHY-7936387 A01) 12 MONTHS $60,000

UTAH

BRIGHAM YOUNG UNIVERSITY

HARRISON, B KENT; *SEARCH FOR AND STUDY OF EXACT SOLUTIONS OF THE EQUATIONS OF GENERAL RELATIVITY* (PHY-8004145) 24 MONTHS $29,000

UNIVERSITY OF UTAH

KUCHAR, KAREL V, AND FRICE, RICHARD H; *QUANTUM GRAVITY AND RELATIVISTIC ASTROPHYSICS* (PHY-7905369 A03) 12 MONTHS $66,305

BERGERON, HAVEN E, CASSIDAY, GEORGE L, AND LOH, EUGENE C; *A COSMIC RAY STUDY OF ULTRA-HIGH ENERGY PROCESSES* (PHY-7910471 A01) $26,400

BERGERON, HAVEN E, CASSIDAY, GEORGE L, AND LOH, EUGENE C; *A COSMIC RAY STUDY OF ULTRA-HIGH ENERGY PROCESSES* (PHY-7910471 A02) 12 MONTHS $66,140

LOH, EUGENE C, AND GROOM, DONALD E, *LEPTONIC PROCESSES AT PEP* (PHY 8006404) 12 MONTHS $97,257

BALL, JAMES S, AND DETAR, CARLETON E, *RESEARCH IN HIGH ENERGY THEORETICAL PHYSICS* (PHY 8006149) 24 MONTHS $57,500

UTAH STATE UNIVERSITY

LIND, V G, *PION DEEP INELASTIC AND ABSORPTION REACTIONS IN NUCLEI* (PHY 8010804) 12 MONTHS $33,554

VIRGINIA

COLLEGE OF WILLIAM AND MARY

BUCKHAUSE, MORTON, SIEGEL, ROBERT T, RANZ, JOHN R, AND WELSH, ROBERT E, *INTERACTIONS OF MUONS, KAONS, ANTIPROTONS AND SIGMA HYPERONS* (PHY 7812002) 12 MONTHS $120,000

PERDRISAT, CHARLES F, *NUCLEAR STUDIES WITH PROTONS AND PIONS* (PHY 7907191) 12 MONTHS $31,000

REMLER, EDWARD A, *STUDIES IN REACTION THEORY* (PHY 8006109) 36 MONTHS $5,250

UNIVERSITY OF VIRGINIA

WEBER, HANS-JURG E, AND NOBLE, JULIAN V, *THEORETICAL MEDIUM ENERGY NUCLEAR PHYSICS* (PHY 7910072 A01) 24 MONTHS $96,700

KELLY, HUGH P, *MANY BODY METHODS WITH APPLICATIONS TO ATOMS AND MOLECULES* (PHY 7908743 A01) 12 MONTHS $53,200

THORNTON, STEPHEN T, *EXPERIMENTAL NUCLEAR PHYSICS RESEARCH* (PHY 8006217) 12 MONTHS $30,000

RITTER, ROGERS C, *PRECISION MECHANICAL ROTATIONS FOR FUNDAMENTAL EXPERIMENTS* (PHY 8007844) 24 MONTHS $55,000

VIRGINIA POLYTECHNIC INSTITUTE

MO, LUKE W, *HIGH ENERGY PHYSICS RESEARCH* (PHY 7715535 A02) $60,000

CHANG, LAY N, *THEORETICAL INVESTIGATIONS IN GAUGE FIELD THEORIES AND WEAK INTERACTIONS* (PHY 7821073 A01) 24 MONTHS $22,200

JENKINS, DAVID A, AND GITOW, RAZUD, *LOW ENERGY PION AND MUON EXPERIMENTS* (PHY 7908040 A01) 12 MONTHS $204,000

HACKMAN, ROGER H, *THEORETICAL STUDIES IN INTERMEDIATE ENERGY PHYSICS* (PHY 7908473 A01) 12 MONTHS $7,800

COLLINS, GEORGE B, FUCHS, JOHN R, AND THOMER, W P, *A SEARCH FOR MESON RESONANCES* (PHY 7811914 A01) $20,000

COLLINS, GEORGE B, FUCHS, JOHN R, AND THOMER, W P, *A SEARCH FOR MESON RESONANCES* (PHY 7811914 A02) $9,000

MO, LUKE W, *HIGH ENERGY PHYSICS RESEARCH* (PHY 8006344) 12 MONTHS $192,011

MO, LUKE W, *HIGH ENERGY PHYSICS RESEARCH* (PHY 8006344 A01) $37,019

WASHINGTON

UNIVERSITY OF WASHINGTON

COOK, VICTOR, AND WILLIAMS, ROBERT W, *ELEMENTARY PARTICLE PHYSICS USING HIGH ENERGY ACCELERATORS* (PHY 7810397 A02) $42,200

WILLIAMS, R W, AND COOK, VICTOR, *ELEMENTARY PARTICLE PHYSICS USING HIGH ENERGY ACCELERATORS* (PHY 7810397 A03) 12 MONTHS $105,300

DEHMELT, HANS G, AND VAN DYCK, ROBERT S, *SINGLE ATOMIC PARTICLES AT REST IN SPACE* (PHY 7908047 A02) 12 MONTHS $45,300

LUBATTI, HENRY J, *VISUAL TECHNIQUES IN HIGH ENERGY PHYSICS* (PHY 7910408 A02) 12 MONTHS $200,100

LUBATTI, HENRY J, *VISUAL TECHNIQUES IN HIGH ENERGY PHYSICS* (PHY 7910408 A03) $21,100

GEBALLE, RONALD, *PION COLLISION STUDIES* (PHY 8007979) 12 MONTHS $75,200

PORTMAN, E NORVAL, *PARITY TESTS IN ATOMS* (PHY 8008454) 12 MONTHS $110,600

VAN DYCK, ROBERT S, *MUONIUM STUDIES, FRACTION MASS RATIO AND PROTON G FACTOR* (PHY 8015420) 36 MONTHS $82,000

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

MC GOY, KIRK W, AND FRIEDMAN, WILLIAM A, *NUCLEAR THEORY* (PHY 7811918 A01) 24 MONTHS $104,500

DURAND, LOYAL, AND FUNDHOM, LEE G, *XXTH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS, MADISON, WISCONSIN, JULY 17-23, 1980* (PHY 7911225 A01) 15 MONTHS $11,400

BARGER, VERNON D, AND CLINE, DAVID B, *A THREE DAY MINI CONFERENCE AND WORKSHOP ON NEUTRINO MASS, OCTOBER 24, 1980 AT TELEMARK LODGE, CABLE, WISCONSIN* (PHY 8010643) 6 MONTHS $1,011

UNIVERSITY OF WISCONSIN, MILWAUKEE

PARKER, LEONARD, AND FRIEDMAN, JOHN, *GRAVITY, QUANTIZED FIELDS, AND RELATIVISTIC ASTROPHYSICS* (PHY 7908457 A01) 12 MONTHS $31,500

MATERIALS RESEARCH

ARIZONA

ARIZONA STATE UNIVERSITY

EYRING, LEROY, AND LIN, SHENG H, *THE THERMODYNAMIC AND REACTION PROPERTIES OF NON METALLIC SOLIDS HAVING EXTENDED DEFECTS* (DMR 7908722 A02) 12 MONTHS $53,000

O'KEEFFE, MICHAEL, *CRYSTAL CHEMISTRY* (DMR 7908157 A02) 12 MONTHS $43,000

SAVRITSKY, ALEXANDRA, *THERMOCHEMISTRY OF OXIDES AND CHALCOGENIDES AT HIGH TEMPERATURE* (DMR 7910826 A02) 12 MONTHS $36,000

SHAW, MILTON C, *ACQUISITION OF A SCANNING AUGER MICROPROBE* (DMR 7910826) 12 MONTHS $142,000

SHAW, MILTON C, *THE ROLE OF ADHESION IN THE WEAR OF BRITTLE FRACTURY ABRASIVE PARTICLES* (DMR 7910826) 12 MONTHS $58,000

GLAUNSINGER, WILLIAM S, VON DREELE, ROBERT B, MARZKE, ROBERT F, AND HANSEN, ROLAND C, *STRUCTURE AND PROPERTIES OF METAL AMMONIA COMPOUNDS* (DMR 7910826) 12 MONTHS $108,300

COWLEY, JOHN M, *SHORT RANGE ORDERING STUDIES USING SCANNING TRANSMISSION ELECTRON MICROSCOPY* (DMR 7910460) 12 MONTHS $77,900

SPENCE, JOHN C, *ATOMIC STRUCTURE OF LINE AND PLANAR DEFECTS IN SEMICONDUCTORS* (DMR 8006706) 12 MONTHS $44,400

EYRING, LEROY, *STRUCTURE, DEFECTS AND CHEMICAL REACTION IN THE SOLID STATE: HIGH RESOLUTION TRANSMISSION ELECTRON MICROSCOPY AND MICROANALYSIS* (DMR 8008344) 12 MONTHS $120,000

GLAUNSINGER, WILLIAM S, *INSTUMENTATION FOR NEW APPLICATIONS OF ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY IN SOLID STATE CHEMISTRY* (DMR 8008037) 12 MONTHS $91,200

PAGE, JOHN B, AND WALKER, CHARLES T, *EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES OF THE ELECTRON PHONON INTERACTION* (DMR 8007258) 12 MONTHS $66,000

IIJIMA, SUMIO, *ELECTRON MICROSCOPY OF ATOM CONFIGURATIONS OF SURFACES AND DEFECTS IN CRYSTALS* (DMR 8015761) 12 MONTHS $41,973

UNIVERSITY OF ARIZONA

HALL, H K, *PI ACCEPTOR MOLECULES AS ORGANIC INITIATORS FOR RING POLYMERIZATIONS* (DMR 7908709 A02) 12 MONTHS $44,200

STARR, ROYAL W, *PROPERTIES OF CONDUCTION ELECTRONS IN METALS* (DMR 7910842) 12 MONTHS $36,500

DEMER, LOUIS J, *INDUSTRY UNIVERSITY COOPERATIVE PROGRAM (IUC): CORRELATION OF ELECTRICALLY ACTIVE DEFECTS IN SILICON WAFERS WITH STRUCTURAL INHOMOGENEITIES IN AS GROWN CRYSTALS* (DMR 7916512) 12 MONTHS $58,760

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

ZEWAIL, AHMED H, *SINGLE MODE LASER SPECTROSCOPY OF EXCITED STATES, ENERGY TRANSFER AND RELAXATION IN ORDERED AND DISORDERED SOLIDS* (DMR 7710679 A02) 36 MONTHS $58,500

VREELAND, THAD J, AND WOOD, DAVID S, *DISLOCATION VELOCITY AND MULTIPLICATION PRODUCED BY PLANE WAVE LOADING* (DMR 7712750 A02) 12 MONTHS $62,400

HUMPHREY, FLOYD B, *MAGNETIC BUBBLE DOMAIN WALL DYNAMICS* (DMR 7710424 A02) 12 MONTHS $61,000

GODDARD, WILLIAM A, AND MCGILL, THOMAS C, *CHEMISORPTION AND CATALYSIS ON SOLID SURFACES USING MOLECULAR MANY BODY TECHNIQUES* (DMR 7610666) 12 MONTHS $75,000

MERCEREAU, JAMES E, *HIGH FIELD MICROWAVE SUPERCONDUCTIVITY* (DMR 8006484) 12 MONTHS $55,000

HOPFIELD, JOHN J, *EXPERIMENTAL AND THEORETICAL STUDIES ON THE PHYSICS OF BIOLOGICAL MOLECULES* (DMR 8018674) 12 MONTHS $59,000

LINUS PAULING INSTITUTE OF SCIENCE & MEDICINE

PAULING, LINUS, *THE STRUCTURE OF MOLECULES AND CRYSTALS AND THE NATURE OF THE CHEMICAL BOND* (DMR 8018726) 12 MONTHS $59,000

ROCKWELL INTERNATIONAL CORPORATION

CLARKE, DAVID R, *INDUSTRY UNIVERSITY COOPERATIVE RESEARCH ACTIVITY THERMODYNAMIC PARAMETERS RELATING PHASE RETENTION AND MICROCRACKING IN CERAMICS* (DMR 8007143) 18 MONTHS $22,000

SAN DIEGO STATE UNIVERSITY

GROSE, HERBERT B, *THEORETICAL STUDIES OF INHOMOGENEOUS ELECTRONIC SYSTEMS IN SOLIDS* (DMR 7930413) 12 MONTHS $30,100

SAN JOSE STATE UNIVERSITY

ACEVEDO, JUANA V, *X RAY SPECTROSCOPY OF METAL AMMONIA (AMINE) SYSTEMS* (DMR 7610077 A01) 12 MONTHS $24,000

ACEVEDO, JUANA V, *INTERCALATION AND TRANSPORT PROPERTIES OF LAYER SOLIDS* (DMR 7610811) 12 MONTHS $21,600

SRI INTERNATIONAL

ROWCLIFFE, DAVID J, AND SINCLAIR, ROBERT, *DEFORMATION OF SINGLE FRACTURY METAL CARBIDE SOLID SOLUTIONS* (DMR 7710167 A02) 18 MONTHS $90,000

THOMPSON, THOMAS E; *ELECTRONIC CONDUCTION IN GRAPHITE FLUORIDE INTERCALATION COMPOUNDS (DMR-7726758 A02)*; 12 MONTHS $58,286

STANFORD UNIVERSITY

HARRISON, WALTER A; *PSEUDOPOTENTIAL METHODS IN PHYSICS (DMR-7721384 A02)*; 12 MONTHS $54,000

GEBALLE, THEODORE H; *MATERIALS RESEARCH LABORATORY PROGRAM (DMR-7724222 A02)*; 12 MONTHS $1,675,000

BIENENSTOCK, ARTHUR I, AND WINICK, HERMAN; *CONSTRUCTION AT THE STANFORD SYNCHROTRON RADIATION LABORATORY (DMR-7727489 A08)*; 12 MONTHS $1,495,000

BIENENSTOCK, ARTHUR I, AND WINICK, HERMAN; *OPERATIONS AND RESEARCH AT THE STANFORD SYNCHROTRON RADIATION LABORATORY (DMR-7727489 A09)*; 36 MONTHS $3,150,000

GIBBONS, JAMES F; *ION IMPLANTATION AND LASER ANNEALING IN SEMICONDUCTORS AND RELATED MATERIALS (DMR-7819970 A02)*; 14 MONTHS $75,093

FETTER, A L; *QUANTUM FLUIDS AND SOLIDS (DMR-7825258 A01)*; 12 MONTHS $55,000

BIENENSTOCK, ARTHUR I; *STRUCTURAL STUDIES OF AMORPHOUS MATERIALS (DMR-7908554)*; 12 MONTHS $68,000

ZARE, RICHARD N; *SYNCHROTRON RADIATION AS A PROBE OF ATOMIC AND MOLECULAR PROCESSES (PHY-7908634 A01*)*; 12 MONTHS $23,800

BEASLEY, MALCOLM R; *ELECTROMAGNETIC PROPERTIES OF LAYERED SUPERCONDUCTING STRUCTURES (DMR-7911117 A01)*; 12 MONTHS $49,500

LINDAU, INGOLF E; *THE ENERGY DEPENDENCE OF PARTIAL PHOTOIONIZATION CROSS-SECTIONS IN THE SOFT X-RAY REGION (DMR-7913102 A01)*; 12 MONTHS $38,500

FRANK, CURTIS W; *EXCIMER FLUORESCENCE AS A MOLECULAR PROBE OF COMPATIBILITY AND RELAXATION BEHAVIOR IN SOLID POLYMER BLENDS (DMR-7916477 A01)*; 12 MONTHS $51,400

FAYER, MICHAEL D; *EXCITED STATE DYNAMICS IN MOLECULAR SOLIDS (DMR-7920380*)*; 12 MONTHS $93,000

NIX, WILLIAM D; *APPLICATION OF STRESS CHANGE EXPERIMENTS TO THE STUDY OF HIGH TEMPERATURE CREEP (DMR-7923942)*; 12 MONTHS $49,372

SPICER, WILLIAM E, AND GITTLEMAN, JONATHAN I; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FUNDAMENTAL STUDIES OF CERMETS (DMR-8001741*)*; 12 MONTHS $10,479

LITTLE, WILLIAM A; *ORGANIC AND ORGANO-METALLIC CONDUCTORS AND SUPERCONDUCTORS (DMR-8002427)*; 12 MONTHS $88,000

FLORY, PAUL J; *MOLECULAR CONFORMATION AND SPATIAL CONFIGURATIONS OF POLYMER CHAINS (DMR-8006624)*; 12 MONTHS $80,300

DONIACH, SEBASTIAN; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THEORY OF COOPERATIVE PHENOMENA IN SUPERFLUID SYSTEMS OF REDUCED DIMENSIONALITY (DMR-8007931*)*; 12 MONTHS $4,500

UNIVERSITY OF CALIFORNIA, BERKELEY

HAHN, ERWIN L; *COHERENT OPTICAL PHENOMENA AND SOLID STATE SPIN RESONANCE (DMR-7718310 A02)*; 12 MONTHS $95,360

THOMAS, GARETH; *NITROGEN CERAMICS: HIGH RESOLUTION ELECTRON MICROSCOPY STUDIES (DMR-7724[illegible] A02)*; 12 MONTHS $71,000

FALICOV, LEOPOLD M; *THEORETICAL RESEARCH ON THE ELECTRONIC PROPERTIES OF SOLIDS (DMR-7803408 A02)*; 12 MONTHS $55,000

THOMAS, GARETH; *HIGH RESOLUTION TRANSMISSION ELECTRON MICROSCOPY STUDIES OF ALLOYS (DMR-7803894 A02)*; 12 MONTHS $76,026

KNIGHT, WALTER D; *SMALL SOLID PARTICLES IN BEAMS (DMR-7812629 A01)*; 12 MONTHS $75,000

SHEN, Y R; *LINEAR AND NONLINEAR OPTICAL EFFECTS IN LIQUID CRYSTALS (DMR-7818826 A01)*; 12 MONTHS $31,900

COHEN, MARVIN L, AND KITTEL, CHARLES; *THEORETICAL SOLID STATE PHYSICS (DMR-7822465 A01)*; 12 MONTHS $120,000

YU, PETER Y; *STUDY OF INTRINSIC AND EXTRINSIC PROPERTIES OF SEMICONDUCTORS BY RESONANT RAMAN AND BRILLOUIN SPECTROSCOPIES (DMR-7919463)*; 12 MONTHS $60,600

DE FONTAINE, DIDIER; *CLUSTERING AND ORDERING INSTABILITIES IN MULTICOMPONENT SYSTEMS (DMR-7920405 A01)*; 12 MONTHS $89,841

PACKARD, RICHARD E; *ULTRALOW TEMPERATURE PHYSICS (DMR-7925098)*; 12 MONTHS $90,000

UNIVERSITY OF CALIFORNIA, DAVIS

MUKHERJEE, AMIYA K; *MECHANICAL AND MICROSTRUCTURAL ASPECTS IN SUPERPLASTICITY AND CREEP (DMR-7727724 A02)*; 12 MONTHS $42,229

MUNIR, ZUHAIR; *TRANSIENT EVAPORATION OF IONIC CRYSTALS (DMR-7909020 A01)*; 12 MONTHS $57,400

UNIVERSITY OF CALIFORNIA, IRVINE

WALLIS, RICHARD F, AND MARADUDIN, ALEXEI A; *THEORETICAL INVESTIGATIONS OF SURFACE EFFECTS IN SOLIDS AND THE PROPERTIES OF SEMICONDUCTORS (DMR-7809430 A01)*; 12 MONTHS $52,400

LAWRENCE, JON M; *SCALING BEHAVIOR NEAR VALENCE INSTABILITIES (DMR-7906578 A01)*; 12 MONTHS $33,000

USHIODA, SUKEKATSU; *ACQUISITION OF EQUIPMENT FOR STUDIES OF LIGHT SCATTERING RESEARCH IN SOLIDS (DMR-7909986)*; 12 MONTHS $26,861

RUTLEDGE, JAMES E; *THE LOW TEMPERATURE THERMAL PROPERTIES OF DISORDERED GERMANIUM AND SILICON FILMS (DMR-8009318)*; 12 MONTHS $36,000

USHIODA, SUKEKATSU; *LIGHT SCATTERING STUDIES OF ANHARMONICITY AND DISORDER IN SOLIDS (DMR-8011435)*; 12 MONTHS $29,000

MOHAMED, FARGHALLI A; *CREEP BEHAVIOR UNDER VERY LOW STRESSES (DMR-8025820)*; 8 MONTHS $30,275

UNIVERSITY OF CALIFORNIA, LOS ANGELES

CLARK, W G; *EXPERIMENTAL STUDIES OF ONE-DIMENSIONAL ORGANIC METALS, ONE-DIMENSIONAL INSULATORS AND NEW SUPERCONDUCTING MATERIALS (DMR-7723577 A02)*; 12 MONTHS $60,900

NICOL, MALCOLM F; *STRUCTURES AND BONDING OF SOLIDS AT EXTREMELY HIGH PRESSURES (DMR-7727428 A02)*; 13 MONTHS $48,000

HOLSTEIN, T, ORBACH, RAYMOND L, AND PINCUS, P; *SOME THEORETICAL STUDIES OF THE PROPERTIES OF CONDENSED MATTER (DMR-7810312 A02)*; 2 MONTHS $50,000

CHAIKIN, PAUL M; *EXPERIMENTAL STUDIES OF NORMAL METAL INTERACTIONS UTILIZING PROXIMITY EFFECT TUNNELING (DMR-7812000 A02)*; 12 MONTHS $43,000

WILLIAMS, GARY A; *IONS AT THE SURFACE OF LIQUID HELIUM (DMR-7817049 A01)*; 12 MONTHS $30,000

ARDELL, ALAN J; *DISLOCATION ANNIHILATION AND HIGH-TEMPERATURE CREEP OF IONIC SOLIDS (DMR-7826059 A01)*; 12 MONTHS $39,698

ORBACH, RAYMOND L; *AN EXPERIMENTAL STUDY OF SPIN GLASSES AND DYNAMICS OF SUPERCONDUCTORS (DMR-7827129 A02)*; 12 MONTHS $119,930

CHAIKIN, PAUL M; *EXPERIMENTAL STUDIES OF QUASI ONE-DIMENSIONAL CRYSTALS (DMR-7908560 A01)*; 12 MONTHS $60,000

WAGNER, C N; *THE STRUCTURE OF LIQUID AND AMORPHOUS METALLIC ALLOYS AND THE STRUCTURAL RELAXATION OF METALLIC GLASSES (DMR-8007939)*; 12 MONTHS $70,000

ORBACH, RAYMOND L, AND RUDNICK, ISADORE; *16TH INTERNATIONAL CONFERENCE ON LOW TEMPERATURE PHYSICS; AUGUST 19-26, 1981 AT THE UNIVERSITY OF CALIFORNIA, LOS ANGELES (DMR-8014971)*; 24 MONTHS $5,611

UNIVERSITY OF CALIFORNIA, RIVERSIDE

MAC LAUGHLIN, DOUGLAS E; *NUCLEAR MAGNETIC RESONANCE STUDIES OF MIXED-VALENT AND SUPERCONDUCTING RARE-EARTH COMPOUNDS (DMR-7810301 A01)*; 12 MONTHS $59,000

POLLAK, MICHAEL; *TRANSPORT AND ELECTRONIC PROPERTIES OF DISORDERED SOLIDS (DMR-7921959 A01)*; 12 MONTHS $48,900

UNIVERSITY OF CALIFORNIA, SAN DIEGO

MATTHIAS, BERND T; *SUPERCONDUCTIVITY OF MULTICOMPONENT MATERIALS (DMR-7708469 A02)*; 12 MONTHS $336,200

SHAM, LU JEU; *THEORY OF ELECTRON AND LATTICE DYNAMICS IN SOLIDS (DMR-7709595 A02)*; 12 MONTHS $55,800

FEHER, GEORGE, AND SCHULTZ, SHELDON; *SPECTROSCOPY OF CONDENSED MATTER SYSTEMS (DMR-7714659 A03)*; $36,200

SCHULTZ, SHELDON; *ELECTRONIC STRUCTURE AT INTERFACES (DMR-7722781 A03)*; $23,000

WEBB, GEORGE W, AND FISK, ZACHARY; *THERMODYNAMICS, METALLURGY AND PHASE STABILITY OF HIGH TEMPERATURE SUPERCONDUCTORS (DMR-7723774 A02)*; 12 MONTHS $72,900

WEBB, GEORGE W, AND FISK, ZACHARY; *THERMODYNAMICS, METALLURGY AND PHASE STABILITY OF HIGH TEMPERATURE SUPERCONDUCTORS (DMR-7723774 A03)*; $8,000

MILLER, DAVID R, AND WEARE, JOHN H; *MOLECULAR BEAM STUDIES OF SURFACE STRUCTURE, SURFACE PHONON EXCITATIONS AND THE DYNAMICS OF GAS-SURFACE INTERACTIONS (DMR-7817176 A02)*; 12 MONTHS $41,100

GOODKIND, JOHN M; *MEASUREMENTS OF THE ORDERED PHASES OF SOLID HELIUM-3 (DMR-7823974 A01)*; 12 MONTHS $52,800

KOHN, WALTER; *THEORY OF SOLIDS (DMR-7825005 A01)*; 12 MONTHS $37,700

OESTERREICHER, HANS; *GIANT INTRINSIC MAGNETIC HARDNESS (DMR-7920268)*; 12 MONTHS $42,000

SUHL, HARRY; *REACTION KINETICS OVER SURFACES OF SOLIDS (DMR-7922236)*; 12 MONTHS $68,000

SCHULTZ, SHELDON; *DATA ACQUISITION AND PROCESSING SYSTEM (DMR-7924718)*; 12 MONTHS $25,000

MA, SHANGKENG; *STATISTICAL PHYSICS (DMR-8002129)*; 12 MONTHS $44,000

WOO, CHIA-WEI; *MANY-BODY THEORY AND STATISTICAL MECHANICS OF CONDENSED SYSTEMS (DMR-8008816)*; 10 MONTHS $75,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

HANSMA, PAUL K; *ELECTRON TUNNELING STUDIES OF SOLID SURFACES AND INTERFACES (DMR-7683423 A04)*; 3 MONTHS $8,964

JACCARINO, VINCENT; *RESONANCE AND RELATED STUDIES IN CONDENSED MAGNETIC SYSTEMS (DMR-7720185 A02)*; 12 MONTHS $137,000

KOHN, WALTER, SUGAR, ROBERT L, SAWYER, RAYMOND F, SCALAPINO, DOUGLAS J, AND HARTLE, JAMES B; *INSTITUTE FOR THEORETICAL PHYSICS (PHY-7727084 A01*)*; 9 MONTHS $175,000

MILSTEIN, FREDERICK; *THEORETICAL ELASTIC BEHAVIOR OF CRYSTALS AT LARGE STRAINS (DMR-7806865 A01)*; 12 MONTHS $30,074

CANNELL, DAVID S; *EXPERIMENTAL STUDIES OF CRITICAL SYSTEMS (DMR-7910030 A01)*; 12 MONTHS $60,000

METIU, HORIA I; *THEORETICAL STUDY OF THE SPECTROSCOPY OF MOLECULES LOCATED NEAR METALLIC SURFACES* (CHE-7918773*); 12 MONTHS $21,500

AHLERS, GUENTER; *CRITICAL PHENOMENA NEAR THE SUPERFLUID TRANSITION OF HELIUM-4* (DMR-7923289); 12 MONTHS $90,000

HANSMA, PAUL K; *ELECTRON TUNNELING STUDIES OF SOLID SURFACES AND INTERFACES* (DMR-7925430); 12 MONTHS $62,000

SCALAPINO, DOUGLAS J; *MANY-BODY CONDENSED MATTER* (DMR-8001492); 12 MONTHS $49,600

BARRETT, PA'JL H; *MOSSBAUER STUDIES OF MATRIX ISOLATED MOLECULES* (DMR-8002670); 12 MONTHS $35,000

KENNEDY, JOHN H; *SOLID STATE ELECTROCHEMISTRY* (DMR-8002676); 12 MONTHS $62,000

SCHRIEFFER, J R; *THEORETICAL RESEARCH IN SOLID STATE PHYSICS* (DMR-8007439); 12 MONTHS $65,000

HONE, DANIEL W; *CONDENSED MATTER THEORY* (DMR-8008004); 12 MONTHS $40,000

WALKER, WILLIAM C; *CONDENSED MATTER SPECTROSCOPY* (DMR-8015805); 6 MONTHS $25,700

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

BRIDGES, FRANK G; *STUDIES IN CONDENSED MATTER: PARAELECTRICITY AND THE MOBILITY OF ELECTRONS ON THE SURFACE OF LIQUID HELIUM* (DMR-7819761 A01); 12 MONTHS $55,000

NAUENBERG, MICHAEL; *THEORY OF PARTICLE PHYSICS AND PHASE TRANSITIONS* (PHY-7822253 A01*); 12 MONTHS $23,800

NAUENBERG, MICHAEL; *THEORY OF PARTICLE PHYSICS AND PHASE TRANSITIONS* (PHY-7822253 A02*); $10,200

UNIVERSITY OF SOUTHERN CALIFORNIA

BOZLER, HANS M; *MAGNETIC TEXTURES AND SURFACE EFFECTS IN LIQUID 3HE AT ULTRA LOW TEMPERATURES* (DMR-7900830 A01); 12 MONTHS $66,000

ONG, N; *EXPERIMENTAL STUDY OF ANOMALOUS TRANSPORT IN THE LINEAR-CHAIN TRANSITION-METAL TRICHALCOGENIDES* (DMR-7905418 A01); 13 MONTHS $56,000

TRULLINGER, STEVEN E; *THEORETICAL STUDY OF SOLITON PHENOMENA IN CONDENSED MATTER* (DMR-7908920 A01); 12 MONTHS $48,000

MAKI, KAZUMI; *THEORETICAL STUDY OF SUPERFLUID HELIUM-3 AND OTHER CONDENSED MATTER PHYSICS* (DMR-7916903); 12 MONTHS $74,300

LANGDON, TELENCE G; *FLOW AND FRACTURE IN SUPERPLASTIC MATERIALS* (DMR-7925378); 12 MONTHS $55,000

MOHAMED, FARGHALLI A; *CREEP BEHAVIOR UNDER VERY LOW STRESSES* (DMR-8005976); 12 MONTHS $23,790

COLORADO

ASPEN CENTER FOR PHYSICS

ABRAHAMS, ELIHU, PINES, DAVID, CRONIN, JAMES W, AND CARRUTHERS, PETER C; *SUMMER WORKSHOP ON CRITICAL PROBLEMS IN PHYSICS AND ASTROPHYSICS* (PHY-7903900 A01*); 12 MONTHS $17,000

COLORADO SCHOOL OF MINES

TREFNY, JOHN U; *HEAT PULSE AND CORRELATIVE STUDIES IN HELIUM AND AMORPHOUS SEMICONDUCTORS* (DMR-7725715 A01); 12 MONTHS $26,200

COLORADO STATE UNIVERSITY

STILLE, JOHN K; *EFFECT OF POLYMER SUPPORT STRUCTURE IN TRANSITION-METAL CATALYZED ASYMMETRIC SYNTHESES* (DMR-7714447 A02); 12 MONTHS $47,800

UNIVERSITY OF COLORADO AT BOULDER

GELLER, SEYMOUR; *SOLID ELECTROLYTES* (DMR-7711378 A03); 12 MONTHS $58,600

SCOTT, JAMES F; *LIGHT SCATTERING STUDIES OF SPIN-FLIP PROCESSES IN SEMICONDUCTORS AND OF ANOMALOUS PHASE TRANSITIONS IN INSULATORS* (DMR-7802552 A02); 12 MONTHS $55,000

CLARK, NOEL A; *FREELY SUSPENDED LIQUID CRYSTAL FILMS* (DMR-7920169*); 12 MONTHS $45,000

UNIVERSITY OF DENVER

CARPENTER, STEVE H; *CORRELATION OF DEFORMATION MECHANISMS AND SOURCES OF ACOUSTIC EMISSION OPERATIVE DURING DEFORMATION OF CRYSTALLINE MATERIALS* (DMR-7723782 A02); 12 MONTHS $65,260

CONNECTICUT

UNIVERSITY OF CONNECTICUT

NOWOTNY, HANS; *PREPARATION AND PROPERTIES OF COMPLEX CARRIDES AND NITRIDES FOR ABRASIVES* (DMR-7720504 A02); 12 MONTHS $45,784

SHAW, MONTGOMER T, AND JOHNSON, JULIAN F; *POLYMER-POLYMER SOLUBILITY* (DMR-7818076 A01); 12 MONTHS $41,900

BEST, PHILIP E; *ANGULAR-DEPENDENT ELECTRON SPECTROMETRY OF SURFACES* (DMR-8000022); 18 MONTHS $35,000

POTTER, DONALD I; *CHANGES IN SURFACE MICROSTRUCTURE OF SUPERALLOYS CAUSED BY ION IMPLANTATION* (DMR-8006084); 12 MONTHS $56,690

CLAPP, PHILIP C; *STATISTICAL MECHANICAL MODEL OF NUCLEATION AND GROWTH IN MARTENSITIC TRANSFORMATIONS* (DMR-8007031); 12 MONTHS $48,901

DEVEREUX, OWEN F; *ACQUISITION OF SCANNING ELECTRON MICROSCOPE-MICROANALYSIS SYSTEM* (DMR-8010840); 12 MONTHS $95,478

MORRAL, JOHN E; *GROWTH AND COARSENING OF DENDRITES IN BINARY ALLOYS* (DMR-8011404); 12 MONTHS $45,454

HUANG, SAMUEL J, BELL, JAMES P, AND CAMERON, J A; *BIODEGRADABLE POLYMERS* (DMR-8013689); 13 MONTHS $67,800

YALE UNIVERSITY

PROBER, DANIEL E; *HIGH-FIELD STUDIES OF SUPERCONDUCTING LAYERED COMPOUNDS* (DMR-7817957 A03); 12 MONTHS $45,800

WHEELER, ROBERT G; *SPECTROSCOPY OF ELECTRONS IN INVERTED OXIDE SEMICONDUCTOR STRUCTURES* (DMR-7820071 A01); 12 MONTHS $37,800

HENRICH, VICTOR E; *ELECTRON SPECTROSCOPIC STUDIES OF THE ELECTRONIC PROPERTIES OF TRANSITION-METAL-OXIDE SURFACES* (DMR-7823963 A01); 12 MONTHS $47,200

MCBRIDE, J M; *CRYSTAL CHEMISTRY OF PARAMAGNETIC ORGANIC INTERMEDIATES* (DMR-7825002 A01*); 12 MONTHS $51,500

WOLF, WERNER P; *MAGNETIC CRYSTALS WITH WEAK INTERACTIONS* (DMR-7916175); 12 MONTHS $106,000

SERENE, JOSEPH; *THEORY OF SUPERFLUID FERMI LIQUIDS* (DMR-8000522); 18 MONTHS $18,730

DELAWARE

FRANKLIN INSTITUTE-BARTOL RESEARCH FOUNDATION

KEYES, PAUL; *PHASE TRANSITIONS IN LIQUID CRYSTALS* (DMR-7907361 A01); 16 MONTHS $33,000

UNIVERSITY OF DELAWARE

DANIELS, WILLIAM B; *RARE GASES AND OTHER SIMPLE SYSTEMS AT HIGH PRESSURES* (DMR-7801307 A02); 12 MONTHS $73,900

EDINGTON, JEFF W; *MECHANISMS OF DEPOSITION AND EROSION ON BARE, OXIDIZED AND OXIDIZING METALS* (DMR-7805905 A02); 12 MONTHS $54,637

DYBOWSKI, CECIL R; *STRUCTURE AND MOTION IN SOLID POLYMERS BY NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY* (DMR-8005136); 12 MONTHS $35,000

EDINGTON, JEFF W; *ACQUISITION OF SCANNING TRANSMISSION ELECTRON MICROSCOPE ATTACHMENT AND ACCESSORIES* (DMR-8005878*); 18 MONTHS $65,075

ONN, DAVID G; *AMORPHOUS ALLOY PHYSICAL PROPERTIES AT LOW TEMPERATURES* (DMR-8006641); 12 MONTHS $45,784

GREENFIELD, IRWIN G, AND CHOU, TSU-WEI; *A STUDY OF SURFACE LAYER DAMAGE DUE TO INDENTATION FATIGUE* (DMR-8007282); 12 MONTHS $61,004

STREICHER, MICHAEL A; *THE RELATIONSHIP BETWEEN CORROSION OF STAINLESS ALLOYS AND ELECTROCHEMICAL MEASUREMENTS* (DMR-8011981*); 12 MONTHS $75,002

DISTRICT OF COLUMBIA

DEPARTMENT OF ENERGY

WALLENMEYER, WILLIAM A; *CONSTRUCTION AT THE STANFORD SYNCHROTRON RADIATION LABORATORY* (DMR-8010772); 12 MONTHS $105,000

GEORGE WASHINGTON UNIVERSITY

ESTERLING, DONALD M; *SOLID SOLUTION STRENGTHENING AND WEAKENING OF BODY CENTERED CUBIC ALLOYS* (DMR-7900902 A01); 12 MONTHS $64,293

NATIONAL ACADEMY OF SCIENCES

REED, CHARLES K; *SUPPORT OF SOLID STATE SCIENCES COMMITTEE* (DMR-8017904); 12 MONTHS $8,160

FLORIDA

FLORIDA STATE UNIVERSITY

MOULTON, WILLIAM G, AND MORRIS, R CARTER; *SUPERCONDUCTING AND NORMAL ELECTRICAL PROPERTIES OF ANISOTROPIC AND ION IMPLANTED MATERIALS* (DMR-7821612 A01); 12 MONTHS $53,000

MOULTON, WILLIAM G; *SUPERCONDUCTING AND NORMAL ELECTRICAL PROPERTIES OF ANISOTROPIC AND ION IMPLANTED MATERIALS* (DMR-7821612 A02); $9,600

WANG, YUNG-LI; *SERIES EXPANSION METHOD FOR MAGNETIC SYSTEMS WITH SINGLE-ION ANISOTROPIES* (DMR-7925369); 12 MONTHS $33,100

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

VERINK, ELLIS D, AND HUMMEL, ROLF E; *USE OF ELECTROCHEMICAL METHODS IN COMBINATION WITH OPTICAL METHODS TO ELUCIDATE CORROSION MECHANISMS* (DMR-7726760 A02); 12 MONTHS $60,007

UNIVERSITY OF FLORIDA

REED-HILL, R E, AND HARTLEY, CRAIG S; *AN ANALYSIS OF THE BENEFICIAL EFFECTS OF MECHANICAL TWINNING ON BOTH STRENGTH AND DUCTILITY OF FACE-CENTERED CUBIC METALS* (DMR-7722654 A02); 12 MONTHS $50,000

BUTLER, GEORGE B; *SYNTHETIC AND MECHANISTIC STUDIES ON NOVEL POLYMERIC SYSTEMS* (DMR-7722437 A03); 12 MONTHS $47,000

GOULD, ROBERT W; *ACQUISITION OF A MICRO-X-RAY DIFFRACTOMETER AND ROTATING ANODE GENERATOR* (DMR-7921532*); 12 MONTHS $65,000

KUMAR, PRADEEP; *THEORETICAL LOW TEMPERATURE PHYSICS (DMR-8006311)*; 12 MONTHS $24,000

IHAS, GARY; *MAGNETO-HYDRODYNAMIC TEXTURES IN SUPERFLUID HELIUM-THREE (DMR-8006929)*; 12 MONTHS $46,000

HOGEN ESCH, THIEO E; *ION PAIRS AND THE STEREOCHEMISTRY OF ANIONIC VINYL POLYMERIZATION (DMR-8009358)*; 9 MONTHS $42,700

ADAMS, E D; *MAGNETIC AND THERMODYNAMIC STUDY OF SOLID AND LIQUID 3HE (DMR-8010821)*; 12 MONTHS $72,300

HARTLEY, CRAIG S; *ACTA/SCRIPTA METALLURGICA CONFERENCE ON DISLOCATION MODELLING OF PHYSICAL SYSTEMS; JUNE 22-27, 1980; GAINESVILLE, FLORIDA (DMR-8010824)*; 12 MONTHS $7,000

ANDERSON, TIMOTHY J; *SOLID-LIQUID EQUILIBRIUM IN GROUP III-V MULTICOMPONENT SYSTEMS (DMR-8012684)*; 14 MONTHS $50,000

ADAMS, E D, IHAS, GARY, AND BROOKEMAN, JAMES R; *ACQUISITION OF A CLOSED CYCLE-HELIUM LIQUEFACTION SYSTEMCONDENSED MATTER RESEARCH (DMR-8012892*)*; 24 MONTHS $78,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

FORD, JOSEPH B; *CLASSICAL AND QUANTUM THEORY OF TURBULENT BEHAVIOR IN NONLINEAR SYSTEMS (DMR-7827584 A02*)*; 12 MONTHS $13,300

O SHEA, DONALD C; *RESONANCE SPECTRA OF SYNTHETIC METALLOPORPHYRINS (DMR-7907758 A01)*; 12 MONTHS $43,700

THOMAS, EDWARD W; *COLLISION INDUCED OPTICAL AND AUGER SPECTRA OF SOLIDS (DMR-8000671)*; 12 MONTHS $37,400

UNIVERSITY OF GEORGIA

LANDAU, DAVID P; *COMPUTER SIMULATIONS OF PHASE TRANSITIONS (DMR-7926178)*; 12 MONTHS $40,400

ILLINOIS

NORTHERN ILLINOIS UNIVERSITY

KIMBALL, CLYDE W; *MOSSBAUER STUDIES OF TERNARY SUPERCONDUCTORS (DMR-7809773 A01)*; 12 MONTHS $54,700

KIMBALL, CLYDE W; *MOSSBAUER STUDIES OF TERNARY SUPERCONDUCTORS (DMR-7809773 A02)*; $13,960

HURYCH, ZDENEK; *ANGLE RESOLVED PHOTOEMISSION STUDIES OF SOLID SURFACES AND OVERLAYERS USING SYNCHROTRON RADIATION (DMR-7811663 A02)*; 12 MONTHS $52,000

NORTHWESTERN UNIVERSITY

FREEMAN, ARTHUR J; *ELECTRONIC STRUCTURE AND PROPERTIES OF PERFECT AND DEFECTIVE SOLIDS (DMR-7723776 A02)*; 12 MONTHS $70,500

KLOTZ, IRVING M; *SYNTHETIC POLYMERS WITH CATALYTIC ACTIVITIES (DMR-7724152 A02)*; 12 MONTHS $45,800

HOFFMAN, BRIAN M; *NEW HIGHLY CONDUCTIVE MOLECULAR CRYSTALS (DMR-7726409 A02)*; 16 MONTHS $38,500

HALPERIN, WILLIAM P; *EXCHANGE PROPERTIES OF SOLID 3-HE, ACOUSTIC AND NMR STUDIES OF THE 3-HE SUPERFLUIDS (DMR-7811660 A02)*; 12 MONTHS $44,000

KETTERSON, JOHN B; *MATERIAL PROPERTIES AND PHENOMENA AT VERY LOW TEMPERATURES (DMR-7811771 A02)*; 12 MONTHS $74,200

HILLIARD, J E, AND KETTERSON, JOHN B; *PROPERTIES OF COMPOSITIONALLY MODULATED ALLOYS (DMR-7824339 A01)*; 12 MONTHS $65,497

WEERTMAN, JULIA R; *SMALL ANGLE NEUTRON SCATTERING STUDY OF THE INITIATION AND EARLY GROWTH BEHAVIOR OF GRAIN BOUNDARY VOIDS (DMR-7826026 A01)*; 12 MONTHS $25,655

SCHWARTZ, LYLE H; *STRUCTURE AND STRENGTH OF SPINODAL ALLOYS (DMR-7911107)*; 12 MONTHS $49,929

WEERTMAN, JOHANNES; *STUDY OF INTERNAL STRESS IN CLASS I SOLID SOLUTION ALLOYS (DMR-7912146)*; 12 MONTHS $42,552

JOHNSON, D LYNN; *PLASMA SINTERING OF CERAMICS (DMR-7918403)*; 12 MONTHS $58,711

BRITTAIN, JOHN O; *CHARACTERIZATION OF COMPOUNDS OF THE SODIUM THALLIUM STRUCTURE (DMR-7922070)*; 12 MONTHS $55,000

SCHWARTZ, LYLE H; *BASIC AND APPLIED RESEARCH ON MATERIALS (DMR-7923573)*; 12 MONTHS $1,700,000

COHEN, JEROME B; *LOCAL ATOMIC ARRANGEMENTS IN ALLOYS AND INTERMETALLICS (DMR-7923825)*; 12 MONTHS $60,945

COHEN, JEROME B; *ACQUISITION OF X-RAY DIFFRACTION EQUIPMENT (DMR-7924404)*; 12 MONTHS $68,500

ELLIS, DONALD E; *DEVELOPMENT AND APPLICATION OF ONE-ELECTRON THEORY FOR TRANSITION AND HEAVY-METAL COMPOUNDS (DMR-7925379)*; 12 MONTHS $45,000

CHUNG, YIP-WAH, AND FINE, MORRIS E; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SURFACE CONDITIONS ON FATIGUE CRACK INITIATION IN IRON AND STEELS (DMR-7926179*)*; 12 MONTHS $12,219

KETTERSON, JOHN B; *ACQUISITION OF A VARIABLE TEMPERATURE SUPERCONDUCTING SUSCEPTOMETER (DMR-8002094)*; 24 MONTHS $42,966

SINGWI, KUNDAN S; *MICROSCOPIC THEORY OF DYNAMICAL CORRELATIONS IN AN ELECTRON LIQUID AND ITS APPLICATIONS (DMR-8011934)*; 12 MONTHS $49,985

UNIVERSITY OF CHICAGO

COHEN, MORREL H, HERTZ, JOHN A, KADANOFF, LEO P, LEVIN, KATHRYN, AND MAZENKO, GENE F; *THEORETICAL SOLID STATE PHYSICS (DMR-7712637 A02*)*; 12 MONTHS $196,500

KLEPPA, OLE J; *HIGH TEMPERATURE CALORIMETRY OF REFRACTORY SYSTEMS (DMR-7811657 A02*)*; 12 MONTHS $45,744

HORN, PAUL M, AND NAGEL, SIDNEY R; *EXPERIMENTAL STUDIES OF MAGNETIC AND DENSITY WAVE INSTABILITIES (DMR-7820601 A01)*; 12 MONTHS $31,200

FREED, KARL F; *STATISTICAL MECHANICS OF POLYMER SYSTEMS (DMR-7826630 A01)*; 12 MONTHS $55,000

COHEN, MORREL H; *RESEARCH PROGRAM IN MATERIALS SCIENCES (DMR-7924007)*; 12 MONTHS $800,000

SINHA, SUNIL K; *INTERNATIONAL CONFERENCE ON ORDERING IN TWO DIMENSIONS; MAY 28-30, 1980; LAKE GENEVA, WISCONSIN (DMR-8007950*)*; 6 MONTHS $5,000

LEVI-SETTI, RICCARDO; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DEVELOPMENT OF A NEW HIGH-RESOLUTION SCANNING ION MICROPROBE (DMR-8007978*)*; 12 MONTHS $20,528

KLEPPA, OLE J; *HIGH TEMPERATURE THERMODYNAMICS OF METAL-HYDROGEN SYSTEMS (DMR-8007996)*; 12 MONTHS $52,998

FRITZSCHE, HELLMUT; *ELECTRONIC PROPERTIES OF DISORDERED SEMICONDUCTORS (DMR-8009225)*; 12 MONTHS $110,900

CREWE, ALBERT V; *APPLICATION OF ELECTRON BEAM TECHNOLOGY TO MATERIAL SCIENCE (DMR-8014176)*; 12 MONTHS $143,273

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

KOUVEL, JAMES S; *MAGNETISM IN TRANSITION-METAL ALLOYS AND RARE-EARTH COMPOUNDS (DMR-7812777 A02)*; 12 MONTHS $40,000

CARLIN, RICHARD L; *SYNTHESIS, STRUCTURE AND MAGNETIC TRANSITIONS IN TRANSITION METAL COMPOUNDS (DMR-7906119 A01)*; 15 MONTHS $79,400

UNIVERSITY OF ILLINOIS AT URBANA

BIRNBAUM, HOWARD K, AND ALTSTETTER, C J; *HYDROGEN EMBRITTLEMENT IN THE IRON-NICKEL-CHROMIUM SYSTEM (DMR-7709808 A02)*; 12 MONTHS $147,655

ALTSTETTER, C J, AND BIRNBAUM, HOWARD K; *HYDROGEN EMBRITTLEMENT IN THE IRON-NICKEL-CHROMIUM SYSTEM (DMR-7709808 A03)*; $9,520

WOLFE, JAMES P; *INFRARED IMAGING AND SPECTROSCOPY OF THE ELECTRON-HOLE LIQUID IN GERMANIUM (DMR-7711672 A02)*; 12 MONTHS $37,000

EHRLICH, GERT; *ATOMIC EXPLORATION OF CRYSTAL SURFACES (DMR-7723723 A02)*; 12 MONTHS $49,002

FLYNN, COLIN P; *INTERDISCIPLINARY PROGRAM OF MATERIALS RESEARCH (DMR-7723999 A02)*; 12 MONTHS $1,675,000

MCMILLAN, WILLIAM L; *STRUCTURAL PHASE TRANSITIONS AND HIGH TEMPERATURE SUPERCONDUCTORS (DMR-7727091 A02)*; 12 MONTHS $38,500

ALKIRE, RICHARD C; *INITIATION AND TRANSIENT DEVELOPMENT OF CREVICE CORROSION: EXPERIMENTAL STUDIES AND TRANSPORT ANALYSES (DMR-7728285 A02)*; 12 MONTHS $34,000

WERT, CHARLES A, AND HUTCHINGS, RONALD; *PRECIPITATION PROCESSES IN REFRACTORY METAL - INTERSTITIAL SYSTEMS USING ANALYTICAL ELECTRON MICROSCOPY (DMR-7807761 A01)*; 12 MONTHS $48,085

SALAMON, MYRON B; *COMPARATIVE MULTICRITICAL POINT MEASUREMENTS ON ORDERED AND DISORDERED MATERIALS (DMR-7807763 A02)*; 12 MONTHS $44,200

WOOL, RICHARD P; *MOLECULAR MECHANICS OF POLYMERS BY STRESS INFRARED METHODS (DMR-7813942 A01)*; 28 MONTHS $93,500

PETHICK, C J, AND PINES, DAVID; *QUANTUM LIQUIDS (DMR-7821068 A01)*; 12 MONTHS $72,000

BAYM, GORDON A, AND WORTIS, MICHAEL; *PROPERTIES OF SOLIDS AND MANY PARTICLE SYSTEMS (DMR-7821069 A01*)*; 12 MONTHS $55,700

EHRLICH, GERT; *REACTION AND DIFFUSION ON METAL SURFACES (DMR-7825015 A01)*; 12 MONTHS $69,900

KLEIN, MILES V; *LIGHT SCATTERING STUDIES IN SEMICONDUCTORS AND DISORDERED SOLIDS (DMR-7902780 A01)*; 12 MONTHS $42,800

GINSBERG, DONALD M; *MAGNETIC IMPURITIES IN SUPERCONDUCTORS (DMR-7907771 A01)*; 12 MONTHS $48,000

BROWN, FREDERICK C; *EXCITATION OF SOLIDS BY SYNCHROTRON RADIATION (DMR-7911103)*; 12 MONTHS $65,000

RISBUD, SUBHASH H; *MICROSTRUCTURAL CHARACTERIZATION AND THERMAL STABILITY OF NITROGEN GLASSES (DMR-7917660 A01)*; 12 MONTHS $44,003

WOOL, RICHARD P; *ACQUISITION OF A TENSILE TESTING FACILITY (DMR-7921562)*; 12 MONTHS $18,000

GEIL, PHILLIP H; *POLYMER MORPHOLOGY (DMR-7923324 A01)*; 12 MONTHS $69,000

MCHUGH, ANTHONY J; *FLOW INDUCED CRYSTALLIZATION FROM SOLUTION (DMR-7927209)*; 18 MONTHS $47,200

DLOTT, DANA D; *EXCITED STATE INTERACTIONS IN MOLECULAR CRYSTAL PHOTOCHEMISTRY (DMR-8001630)*; 8 MONTHS $40,000

WERT, CHARLES A; *ACCESSORIES FOR ELECTRON MICROSCOPE (DMR-8006511)*; 12 MONTHS $41,283

ANDERSON, ANSEL C; *A LOW TEMPERATURE INVESTIGATION OF AMORPHOUS MATERIALS (DMR-8006941*)*; 12 MONTHS $46,000

WEISSMAN, MICHAEL B; *1/F NOISE INVESTIGATIONS IN CONDENSED MATTER SYSTEMS (DMR-8007057)*; 12 MONTHS $44,000

PHILLIPS, D S; *RESEARCH INITIATION: ORIENTATION RELATIONSHIPS AND INTERFACE STRUCTURES IN CAST IRONS (DMR-8007319)*; 24 MONTHS $40,000

CHEN, HAYDN H; *ACQUISITION OF X-RAY RESEARCH EQUIPMENT (DMR-8007430)*; 12 MONTHS $21,500

FLYNN, COLIN P; *SYNCHROTRON RADIATION STUDIES OF IMPURITIES INTERACTING WITH METALS* (DMR-8008139; 12 MONTHS $75,600

GRANATO, ANDREW V; *DEFECT INTERACTIONS IN CRYSTALS* (DMR-8015707; 12 MONTHS $43,600

HOLONYAK, NICK J; *LUMINESCENCE AND LASER STUDIES IN III-V SEMICONDUCTORS* (DMR-8017939*; 12 MONTHS $28,000

WILLIAMS, WENDELL S; *PLASTIC DEFORMATION OF CEMENTED CARBIDES* (DMR-8018695; 16 MONTHS $52,577

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

MAHAN, GERALD D; *THEORY OF CONDENSED MATTER* (DMR-7711305 A03; 12 MONTHS $36,600

CHASE, LLOYD L; *OPTICAL PROPERTIES OF SOLIDS* (DMR-7809426 A02; 12 MONTHS $86,100

SCHAICH, WILLIAM L; *THEORETICAL STUDY OF FUNDAMENTAL PROCESSES IN CONDENSED MATTER* (DMR-7810235 A01; 12 MONTHS $12,300

PURDUE UNIVERSITY

ADELMAN, STEVEN A; *STATISTICAL DYNAMICS AND GAS/SOLID PROCESSES* (DMR-7681113 A02; 12 MONTHS $26,000

HONIG, J M; *MATERIALS RESEARCH LABORATORY* (DMR-7723798 A02; 12 MONTHS $1,160,000

RAMDAS, ANANT K, AND RODRIGUEZ, S; *ELECTRONIC AND VIBRATIONAL SPECTRA OF SOLIDS* (DMR-7727248 A02; 12 MONTHS $76,000

COLELLA, ROBERTO; *X-RAY STUDIES OF SOLID STATE PROPERTIES, VALENCE CHARGE DENSITIES, ACOUSTOELECTRICALLY AMPLIFIED PHONONS* (DMR-7727534 A03; 12 MONTHS $34,000

OVERHAUSER, ALBERT W; *INTERACTING FERMI SYSTEMS* (DMR-7800545 A02; 12 MONTHS $50,000

PROHOFSKY, E W; *APPLICATION OF SOFT MODE ANALYSIS TO THE LATTICE DYNAMICS OF DNA AND RNA HELICES* (DMR-7820602 A01; 12 MONTHS $34,700

VEST, R W; *MIXED CONDUCTION IN IRON DOPED BETA'-ALUMINA* (DMR-7825236 A01; 12 MONTHS $54,043

SATO, HIROSHI, AND KIKUCHI, RYOICHI; *INDUSTRY UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: KINETICS OF PHASE TRANSITIONS* (DMR-7903932 A01*; 12 MONTHS $24,000

GIORDANO, NICHOLAS J; *FABRICATION AND PROPERTIES OF ONE-DIMENSIONAL SYSTEMS* (DMR-7906716 A01; 12 MONTHS $44,500

KEESOM, P H, AND HONIG, J M; *PROPERTIES OF OXIDES OF VANADIUM IN THE CRYOGENIC TEMPERATURE RANGE* (DMR-7908356 A01; 12 MONTHS $47,000

SLADEK, RONALD J; *ULTRASONIC AND RELATED INVESTIGATIONS OF SOLIDS* (DMR-7908538 A01; 12 MONTHS $48,700

FAN, H Y; *OPTICAL PROPERTIES OF SEMICONDUCTORS, MAGNETIC SEMICONDUCTORS AND FAR-INFRARED EMISSION FROM SEMICONDUCTORS* (DMR-7919398; 12 MONTHS $36,400

FURDYNA, J K; *SUBMILLIMETER WAVE INVESTIGATION OF SEMIMAGNETIC SEMICONDUCTORS* (DMR-7923310; 12 MONTHS $48,000

SCHUHMANN, R; *COAL GASIFICATION KINETICS IN A JET-FLUIDIZED BED* (DMR-7923756; 12 MONTHS $92,268

ANGELL, C A; *SUPERCOOLED LIQUIDS AND DISORDERED CRYSTALS BY EXPERIMENT AND SIMULATION* (DMR-8007053; 12 MONTHS $68,300

ROBINSON, WILLIAM R; *SYNTHESIS AND CHARACTERIZATION OF ANALOGUES OF CHEVREL PHASES* (DMR-8009143; 10 MONTHS $33,000

UNIVERSITY OF NOTRE DAME

BLACKSTEAD, HOWARD A; *PHONON SPECTROSCOPY IN RARE EARTHS AND RARE-EARTH-IRON COMPOUNDS* (DMR-7803013 A02; 12 MONTHS $45,000

FIORE, NICHOLAS F; *ENVIRONMENTAL-ASSISTED FAILURE OF FCC HIGH ALLOYS* (DMR-7807167 A02; 12 MONTHS $115,040

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

UNRUH, WESLEY P; *ELASTIC LIGHT SCATTERING INVESTIGATION OF THE DEFECT SUBSTRUCTURE OF REFRACTORY OXIDES* (DMR-7810824 A01; 12 MONTHS $54,227

UNRUH, WESLEY P; *ELASTIC LIGHT SCATTERING INVESTIGATION OF THE DEFECT SUBSTRUCTURE OF REFRACTORY OXIDES* (DMR-7810824 A02; $7,705

KENTUCKY

UNIVERSITY OF KENTUCKY

STRALEY, JOSEPH P; *COOPERATIVE PHENOMENA IN THE ELECTRICAL CONDUCTIVITY OF COMPOSITE MATERIALS* (DMR-7827023 A01; 12 MONTHS $20,000

UNIVERSITY OF LOUISVILLE

DUPRE, DONALD B; *ELASTIC CONSTANTS OF POLYMER LIQUID CRYSTALS* (DMR-7903760 A01; 17 MONTHS $55,900

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

CALLAWAY, JOSEPH; *BAND THEORY OF FERROMAGNETIC METALS* (DMR-7817806 A01; 12 MONTHS $35,400

SHELTON, THOMAS C; *SURFACE ANALYSIS AND X-RAY DIFFRACTION EQUIPMENT* (DMR-7925756; 12 MONTHS $63,507

GOODRICH, ROY G; *RADIO FREQUENCY SIZE EFFECT MEASUREMENTS IN METALS* (DMR-8009826; 12 MONTHS $35,200

MAINE

UNIVERSITY OF MAINE, ORONO

TARR, CHARLES E; *DYNAMIC PROPERTIES OF LIQUID CRYSTALS* (DMR-7810313 A02; 16 MONTHS $60,800

SMITH, CHARLES W, AND SCHWARZ, KLAUS W; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: TIME AND SPACE-RESOLVED TURBULENCE IN SUPERFLUID HELIUM-4* (DMR-8005358*; 12 MONTHS $16,500

MARYLAND

JOHNS HOPKINS UNIVERSITY

GREEN, ROBERT E; *DETERMINATION OF THE MECHANISM OF HIGH-POWER ULTRASONIC SOFTENING OF METALS* (DMR-7805944 A02; 12 MONTHS $58,771

KISTENMACHER, THOMAS J; *STRUCTURE-PHYSICAL PROPERTY RELATIONSHIPS FOR QUASI ONE-DIMENSIONAL MATERIALS* (DMR-7823957 A01; 12 MONTHS $47,000

MORAN, PATRICK J; *RESEARCH INITIATION: CATALYSIS OF THE HYDROGEN EVOLUTION REACTION* (DMR-8006688; 24 MONTHS $40,000

WALKER, JAMES C, AND CHIEN, CHIA-LING; *SOLID STATE STUDIES USING MOSSBAUER SPECTROSCOPY AND OTHER TECHNIQUES* (DMR-8008148; 12 MONTHS $70,000

COWAN, DWAINE O; *INDUSTRY - UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SYSTEMATIC DEVELOPMENT OF NEW ORGANIC CONDUCTORS* (DMR-8015218*; 12 MONTHS $28,000

CHIEN, CHIA-LING; *SOLID STATE STUDIES OF AMORPHOUS MAGNETIC SOLIDS* (DMR-8015611; 12 MONTHS $40,000

MARTIN MARIETTA CORPORATION-MARTIN MARIETTA LABORATORY

VENABLES, JOHN D, AND PRECHT, WALTER; *RELATIONSHIP BETWEEN THE MECHANICAL BEHAVIOR OF CERMETS AND PROPERTIES OF THEIR CONSTITUENT PHASES* (DMR-7708354 A02; 12 MONTHS $64,963

AHEARN, JOHN S; *ELECTRICAL NATURE OF DISLOCATIONS IN SEMICONDUCTORS* (DMR-7911914 A01; 12 MONTHS $61,070

NATIONAL BUREAU OF STANDARDS

MADDEN, ROBERT P; *INTERNATIONAL CONFERENCE ON VACUUM ULTRAVIOLET RADIATION PHYSICS, CHARLOTTESVILLE, VIRGINIA; JUNE 2-6, 1980* (PHY-8002054*; 12 MONTHS $5,000

REED, RICHARD P, AND SMITH, JOHN H; *THE ECONOMIC ASPECTS OF FRACTURE IN THE U.S. ECONOMY* (DMR-8021179*; 12 MONTHS $15,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

BAILEY, WILLIAM J; *FREE RADICAL RING-OPENING POLYMERIZATION* (DMR-7728322 A02; 12 MONTHS $52,400

DREW, HOWARD D; *FAR INFRARED PROPERTIES OF SEMIMETALS AND DEGENERATE SEMICONDUCTORS* (DMR-7728399 A02; 12 MONTHS $49,000

PARK, ROBERT L; *COMPOSITION AND ELECTRONIC STRUCTURE OF ALLOY SURFACES* (DMR-7900323 A01; 12 MONTHS $58,000

LYNN, JEFFREY W, AND FERRELL, RICHARD A; *NEUTRON SCATTERING IN MAGNETIC MATERIALS* (DMR-7900908 A01; 12 MONTHS $53,000

FERRELL, RICHARD A; *DYNAMICAL SCALING IN NORMAL AND SUPERFLUID LIQUIDS* (DMR-7901172 A01; 12 MONTHS $40,000

SENGERS, JAN V, AND FERRELL, RICHARD A; *PHASE TRANSITIONS AND CRITICAL PHENOMENA* (DMR-7910819 A01; 12 MONTHS $137,000

MATHERS, JAMES P; *THE EFFECT OF IMPURITIES ON THE SINTERING OF ALUMINUM NITRIDE* (DMR-8001980; 12 MONTHS $42,375

MASSACHUSETTS

BOSTON UNIVERSITY

HOY, GILBERT R, AND KOLK, BEREND; *MAGNETIC HYPERFINE INTERACTIONS IN SOLIDS* (DMR-7719017 A02; 12 MONTHS $60,000

BRANDEIS UNIVERSITY

SCHWARTZ, LAWRENCE M; *THEORY OF THE ELECTRONIC PROPERTIES OF DISORDERED METALS* (DMR-7727249 A02; 12 MONTHS $38,700

HELLER, PETER; *EXPERIMENTAL INVESTIGATIONS OF CRITICAL PHENOMENA* (DMR-7803026 A02; 12 MONTHS $54,528

CANTER, KARL; *POSITRON ANNIHILATION MEASUREMENTS IN LOW TEMPERATURE HELIUM* (DMR-7809199 A02; 12 MONTHS $29,300

CANTER, KARL; *POSITRON ANNIHILATION MEASUREMENTS IN LOW TEMPERATURE HELIUM* (DMR-7809199 A03; $5,875

MEYER, ROBERT B; *STRUCTURAL STUDIES OF LIQUID CRYSTALS* (DMR-7915149 A01; 12 MONTHS $54,000

GROSS, EUGENE P; *ANALYTIC METHODS IN CONDENSED MATTER PHYSICS* (DMR-7923213; 12 MONTHS $21,300

BENKO, STEPHAN; *SOLID STATE PHYSICS STUDIES WITH POSITRONS* (DMR-7926035; 12 MONTHS $73,000

YOUNG, CHARLES Y; *LASER LIGHT SCATTERING STUDIES OF FREELY SUSPENDED SMECTIC LIQUID CRYSTAL FILMS* (DMR-8006492; 12 MONTHS $38,500

CLARK UNIVERSITY

HOHENEMSER, CHRISTOPH, AND COLLINS, GARY; *HYPERFINE INTERACTION STUDIES IN METALS, WITH APPLICATION TO CRITICAL PHENOMENA* (DMR-8002443; 12 MONTHS $58,423

HARVARD UNIVERSITY

HALPERIN, BERTRAND H, MARTIN, PAUL C, EHRENREICH, HENRY, AND NELSON, DAVID R; *THEORETICAL PROBLEMS IN CONDENSED MATTER AND STATISTICAL PHYSICS (DMR-7710210 A03)*; 12 MONTHS $180,000

PAUL, WILLIAM; *PROPERTIES OF AMORPHOUS SEMICONDUCTORS (DMR-7810014 A02)*; 12 MONTHS $110,000

TINKHAM, MICHAEL, AND SKOCPOL, WILLIAM J; *FUNDAMENTAL PROPERTIES OF SUPERCONDUCTORS (DMR-7904155 A01)*; 12 MONTHS $79,000

TINKHAM, MICHAEL, AND SKOCPOE, WILLIAM J; *FUNDAMENTAL PROPERTIES OF SUPERCONDUCTORS (DMR-7904155 A02)*; $19,320

BEVK, JOZE, TURNBULL, DAVID, TINKHAM, MICHAEL, AND SKOCPOL, WILLIAM J; *PREPARATION AND CHARACTERIZATION OF IMPROVED SUPERCONDUCTING MATERIALS (DMR-7905011 A01*)*; 12 MONTHS $107,000

POUND, ROBERT V, AND VETTERLING, WILLIAM T; *NUCLEAR RESONANCE (DMR-7907023 A01)*; 12 MONTHS $81,579

PERSHAN, PETER S; *PHYSICAL PROPERTIES OF LIQUID CRYSTALS AND ORDERED FLUIDS (DMR-7919479)*; 12 MONTHS $130,500

PAUL, WILLIAM; *MATERIALS RESEARCH LABORATORY (DMR-7923597)*; 12 MONTHS $700,000

TURNBULL, DAVID; *EFFECTS OF ' FAST ' DIFFUSING INPURITIES ON THE PROPERTIES OF METALLIC SOLUTIONS (DMR-8012933*)*; 12 MONTHS $45,000

MANLABS INC

KAUFMAN, LAWRENCE; *CALCULATION OF TERNARY PHASE DIAGRAMS BY COMPUTER METHODS (DMR-7911916 A01)*; 12 MONTHS $98,700

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LAX, BENJAMIN; *STAFFING, MANAGEMENT AND OPERATION OF THE FRANCIS BITTER NATIONAL MAGNET LABORATORY (DMR-7101679 A32)*; 9 MONTHS $3,187,500

LAX, BENJAMIN; *STAFFING, MANAGEMENT AND OPERATION OF THE FRANCIS BITTER NATIONAL MAGNET LABORATORY (DMR-7101679 A33)*; 6 MONTHS $962,500

CANNON, ROWLAND M; *GRAIN BOUNDARY MIGRATION AND GRAIN GROWTH IN CERAMICS (DMR-7711685 A02)*; 12 MONTHS $80,881

SHULL, C G; *MAGNETIC ORDERING AND NEUTRON PHYSICS STUDIES (DMR-7724307 A02)*; 12 MONTHS $160,000

KASTNER, MARC; *LUMINESCENCE STUDIES OF DEFECTS IN LONE-PAIR SEMICONDUCTORS (DMR-7800836 A02)*; 12 MONTHS $45,000

GREYTAK, THOMAS J; *LIGHT SCATTERING FROM SUPERFLUID HELIUM (DMR-7803017 A02)*; 12 MONTHS $43,000

LATANISION, R M; *THE STABILITY OF AMORPHOUS METALS IN CORROSIVE ENVIRONMENTS (DMR-7805712 A02)*; 12 MONTHS $57,060

LATANISION, R M; *SURFACE EFFECTS IN THE PLASTICITY OF CRYSTALLINE SOLIDS (DMR-7805935 A02)*; 12 MONTHS $43,739

SUNG, C S P; *PHOTOISOMERIZATION OF AZOCHROMOPHORES AS A PROBE OF MOLECULAR MOTION IN POLYMERIC SOLIDS (DMR-7807172 A01)*; 12 MONTHS $25,000

OWEN, WALTER S; *MARTENSITIC DEFORMATION UNDER CYCLIC STRESS (DMR-7807775 A01)*; 12 MONTHS $46,311

DRESSELHAUS, MILDRED S; *GRAPHITE INTERCALATION COMPOUNDS AND THE ELECTRONIC STRUCTURE OF GRAPHITE (DMR-7810858 A02)*; 12 MONTHS $50,000

FLEMINGS, MERTON C; *FUNDAMENTALS OF DIRECTIONAL SOLIDIFICATION (DMR-7810905 A02)*; 12 MONTHS $49,737

BALLUFFI, ROBERT W, AND BRISTOWE, PAUL D; *STRUCTURE OF GRAIN BOUNDARIES (DMR-7812804 A01)*; 12 MONTHS $69,183

JOHNSON, KEITH H; *ELECTRONIC STRUCTURES AND CHEMICAL BONDING OF SMALL METAL AND ALLOY AGGREGATES (DMR-7818800 A01)*; 12 MONTHS $44,900

LITSTER, J DAVID; *SCATTERING SPECTROSCOPY OF LIQUID CRYSTALS (DMR-7823555 A01)*; 12 MONTHS $78,800

DRESSELHAUS, MILDRED S; *INTERDISCIPLINARY MATERIALS RESEARCH (DMR-7824185 A02*)*; $49,700

DRESSELHAUS, MILDRED S; *INTERDISCIPLINARY MATERIALS RESEARCH (DMR-7824185 A03*)*; 12 MONTHS $2,307,500

SZEKELY, JULIAN; *TURBULENCE PHENOMENA IN METALS PROCESSING (DMR-7824692 A01)*; 12 MONTHS $74,526

TULLER, HARRY L; *DEFECTS AND CONDUCTION MECHANISMS IN NONSTOICHIOMETRIC METAL OXIDES (DMR-7826206 A01)*; 12 MONTHS $44,000

SILBEY, ROBERT J; *QUANTUM MECHANICAL STUDIES OF THE COUPLING BETWEEN ELECTRONIC AND VIBRATIONAL STATES (CHE-7850007 A32*)*; 12 MONTHS $18,000

SILBEY, ROBERT J, AND CHANCE, RONALD R; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THEORETICAL STUDIES OF POLYDIACETYLENES AND POLYACETYLENES (DMR-7908307 A01*)*; 12 MONTHS $23,000

MESERVEY, ROBERT H; *SPIN POLARIZED TUNNELING TECHNIQUES FOR THE STUDY OF FERROMAGNETIC CRYSTALS (DMR-7910047)*; 12 MONTHS $47,000

COHEN, MORRIS, AND OLSON, GREGORY B; *NUCLEATION AND GROWTH OF SOLID-STATE TRANSFORMATIONS (DMR-7915196 A01)*; 14 MONTHS $169,633

HAGGERTY, J S, AND BOWEN, H K; *FACILITY FOR LASER HEATED CRYSTAL GROWTH (DMR-7916376*)*; 12 MONTHS $100,000

BIRGENEAU, ROBERT J; *NEUTRON SCATTERING STUDIES IN ONE, TWO, AND THREE DIMENSIONS ESPECIALLY IN DISORDERED MATERIALS (DMR-7923203)*; 12 MONTHS $79,000

ELLIOTT, JOHN F; *THERMODYNAMIC PROPERTIES OF LIQUID SILICATES, MATTES AND SALTS (DMR-7923671)*; 12 MONTHS $121,348

GATOS, HARRY C, AND LAGOWSKI, JOSEPH J; *PREPARATION AND CHARACTERIZATION OF GALLIUM ARSENIDE STRUCTURES (ECS-7923741*)*; 12 MONTHS $20,000

EAGAR, THOMAS W; *KINETICS OF SLAG-METAL REACTIONS IN WELDING (DMR-7926324)*; 12 MONTHS $60,593

BERKER, A NIHAT; *PHASE TRANSITIONS AND CRITICAL PHENOMENA IN LOW DIMENSIONAL SYSTEMS (DMR-7926405)*; 12 MONTHS $29,000

BERNEY, CHARLES V, AND COHEN, ROBERT E; *INTERPHASE CHARACTERISTICS IN BLOCK COPOLYMERS (DMR-8001674)*; 6 MONTHS $27,500

GREYTAK, THOMAS J, AND KLEPPNER, DANIEL; *RESEARCH ON SPIN-POLARIZED HYDROGEN (DMR-8007850)*; 12 MONTHS $120,000

MAC VICAR, MARGARET L, AND BOSTOCK, JUDITH; *THE ELECTRON-PHONON INTERACTION IN TANTALUM: INFLUENCES OF TUNNEL JUNCTION DESIGN (DMR-8008303)*; 6 MONTHS $23,000

YUREK, GREGORY J; *KINETICS AND MECHANISMS OF THE GROWTH OF TWO-PHASE SCALES ON BINARY ALLOYS (DMR-8009217)*; 12 MONTHS $45,890

ARGON, ALI S; *GROWTH OF CRAZES IN GLASSY POLYMERS (DMR-8012920)*; 12 MONTHS $46,800

KING, THOMAS B; *KINETICS OF REACTIONS BETWEEN ARC PLASMAS AND LIQUID METALS (DMR-8015499)*; 12 MONTHS $56,600

NORTHEASTERN UNIVERSITY

TSAI, C L, AND GIESSEN, B C; *PREPARATION AND CHARACTERIZATION OF NEW METALLIC GLASSES (DMR-7723777 A03)*; 12 MONTHS $55,111

BOUGHTON, ROBERT I; *DEVIATIONS FROM MATTHIESSEN'S RULE IN THE ELECTRICAL RESISTIVITY AND ATTENDANT EFFECTS IN OTHER TRANSPORT PROPERTIES, AND FLUX QUANTIZATION EFFECTS IN NORMAL METALS (DMR-7724023 A02)*; 12 MONTHS $35,500

WU, FA-YUEH; *STATISTICAL MECHANICS AND THE MANY-BODY PROBLEM (DMR-7818808 A01)*; 12 MONTHS $26,100

BANSIL, ARUN; *ELECTRONIC STATES IN DISORDERED MATERIALS (DMR-7902600 A01)*; 12 MONTHS $36,000

REIFF, WILLIAM M; *MAGNETIC ORDERING AND STRUCTURAL PHASE TRANSITIONS IN TRANSITION METAL COMPOUNDS (DMR-8016441)*; 9 MONTHS $32,200

TUFTS UNIVERSITY

GUERTIN, ROBERT P; *METALLIC MAGNETISM - EFFECTS OF PRESSURE AND OF MAGNETIC IMPURITIES IN SUPERCONDUCTORS (DMR-7906659 A01)*; 12 MONTHS $50,000

UNIVERSITY OF LOWELL

BLUMSTEIN, ALEXANDRE, BLUMSTEIN, RITA B, AND CLOUGH, STUART B; *FLEXIBLE POLYMERS WITH MESOGENIC GROUPS (DMR-7925059)*; 12 MONTHS $55,200

BLUMSTEIN, ALEXANDRE; *MATRIX POLYMERIZATION (DMR-7926048)*; 12 MONTHS $47,500

UNIVERSITY OF MASSACHUSETTS, AMHERST

LENZ, ROBERT W; *MONOMER REACTIVITY AND POLYMER STRUCTURE IN CATIONIC POLYMERIZATION REACTIONS (DMR-7617001 A03)*; 6 MONTHS $16,800

STEIN, RICHARD S; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: OPTICAL, X-RAY AND NEUTRON SCATTERING STUDIES OF POLYMER MORPHOLOGY AND RELAXATION (DMR-7805925 A02*)*; 12 MONTHS $56,000

MAC KNIGHT, WILLIAM J; *MICROPHASE SEPARATION IN ORGANIC POLYMERS CONTAINING SALT GROUPS (DMR-7809761 A02)*; 12 MONTHS $41,200

VOGL, OTTO; *POLYMERS FROM FUNCTIONALLY SUBSTITUTED CYCLIC ETHERS (DMR-7813953 A01)*; 12 MONTHS $29,300

KARASZ, FRANK E, AND PORTER, ROGER S; *MATERIALS RESEARCH LABORATORY IN POLYMERS (DMR-7824151 A01)*; 12 MONTHS $620,000

HALLOCK, ROBERT B; *STATIC AND DYNAMIC PROPERTIES OF 4HE, 3HE, AND 3HE-4HE MIXTURES (DMR-7909248 A02)*; 12 MONTHS $106,900

GUYER, ROBERT A; *PROBLEMS IN QUANTUM AND CLASSICAL STATISTICAL MECHANICAL SYSTEMS (DMR-7909592)*; 12 MONTHS $30,500

PORTER, ROGER S; *THE SOLUTION RHEOLOGY OF HELICOIDAL POLYMERS (DMR-7925564)*; 24 MONTHS $85,000

JAKUS, KARL, RITTER, JOHN E, AND KAMINSKY, FRANK C; *STATISTICAL ANALYSIS OF MULTIPLE FLAW DISTRIBUTIONS IN GLASS AND CERAMIC MATERIALS (DMR-8006085)*; 12 MONTHS $37,725

CHIEN, JAMES C W; *IUPAC MACROMOLECULAR SYMPOSIUM, AMHERST, MASSACHUSETTS, JULY 12-16, 1982 (DMR-8008876)*; 12 MONTHS $10,000

THOMAS, EDWIN L; *MICROSTRUCTURAL STUDIES OF POLYMERS (DMR-8012724)*; 18 MONTHS $66,900

MAC KNIGHT, WILLIAM J; *ACQUISITION OF X-RAY DIFFRACTION EQUIPMENT (DMR-8015682)*; 18 MONTHS $70,000

MICHIGAN

CALVIN COLLEGE

VAN ZYTVELD, JOHN B; *AN EXPERIMENTAL STUDY OF THE PHYSICAL AND ELECTRONIC PROPERTIES OF LIQUID TRANSITION METALS*

AND TRANSITION-LIKE METALS AND ALLOYS (DMR-7909969 A01); 12 MONTHS $10,000

MICHIGAN MOLECULAR INSTITUTE

SOLC, KAREL; *GENERALIZED THEORY OF DILUTE POLYMER SOLUTIONS (DMR-7919422)*; 24 MONTHS $66,700

MICHIGAN STATE UNIVERSITY

SCHROEDER, PETER A, BLATT, FRANK J, PRATT, WILLIAM P, AND BASS, JACK; *ELECTRONIC PROPERTIES OF METALS, SEMI-METALS AND ALLOYS DOWN TO ULTRA LOW TEMPERATURES (DMR-7807892 A02*)*; 12 MONTHS $161,800

THORPE, M F; *THEORY OF SOME DISORDERED SYSTEMS (DMR-7909170 A01)*; 12 MONTHS $36,000

EICK, HARRY A; *SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF SOME MIXED HALIDE PHASES (DMR-7915187)*; 12 MONTHS $34,600

DYE, JAMES L; *SOLID-STATE AND SOLUTION PROPERTIES OF ALKALI METAL ANIONS AND TRAPPED OR SOLVATED ELECTRONS (DMR-7921979)*; 12 MONTHS $70,800

BASS, JACK, AND FOILES, CARL L; *STUDIES OF ELECTRON TRANSPORT AND MAGNETIC INTERACTIONS IN METALS (DMR-8005865)*; 12 MONTHS $75,000

SOLIN, STUART A; *ELECTRONIC AND OPTICAL PROPERTIES OF GRAPHITE INTERCALATION COMPOUNDS (DMR-8010486)*; 12 MONTHS $49,000

DYE, JAMES L; *ACQUISITION OF A VARIABLE TEMPERATURE SUPERCONDUCTING SQUID SUSCEPTOMETER (DMR-8012899)*; 12 MONTHS $37,000

SOLIN, STUART A; *THE 28TH MIDWEST SOLID STATE PHYSICS CONFERENCE ON DIMENSIONABILITY AND DISORDER EFFECTS IN CONDENSED MATTER; EAST LANSING, MICHIGAN; OCTOBER 23-25, 1980 (DMR-8017906)*; 6 MONTHS $4,000

MICHIGAN TECHNOLOGICAL UNIVERSITY

COURTNEY, THOMAS H; *INTERPHASE BOUNDARY-INITIATED FRACTURE (DMR-7805741 A03*)*; 12 MONTHS $350,539

UNIVERSITY OF MICHIGAN

KRIMM, SAMUEL; *VIBRATIONAL SPECTRA AND STRUCTURE OF MACROMOLECULES (DMR-7800753 A02)*; 12 MONTHS $55,300

OVERBERGER, CHARLES G; *SYNTHESIS AND PROPERTIES OF ASYMMETRIC POLYAMIDES (DMR-7813400 A02)*; 12 MONTHS $59,500

SANDER, LEONARD M, AND ROSE, JAMES H; *STRONGLY INTERACTING QUANTUM SYSTEMS (DMR-7825012 A01)*; 12 MONTHS $36,200

BRETZ, MICHAEL; *MONOLAYER FILMS ADSORBED ON HIGHLY UNIFORM, WELL-ALIGNED GRAPHITE SUBSTRATES (DMR-7903614 A01)*; 12 MONTHS $60,000

HOSFORD, WILLIAM F, AND CADDELL, ROBERT M; *YIELD OF ANISOTROPIC MATERIALS UNDER COMBINED STRESS (DMR-7923231)*; 12 MONTHS $58,614

UHER, CTIRAD; *SUPERCONDUCTIVITY IN LOW CARRIER DENSITY GROUP V SEMIMETALS (DMR-7924374)*; 12 MONTHS $44,000

SUMMERFIELD, GEORGE C, KING, JOHN S, AND ULLMAN, ROBERT; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: MOLECULAR CONFORMATION OF POLYMERS BY SMALL-ANGLE NEUTRON SCATTERING (DMR-7926254*)*; 12 MONTHS $29,500

KOPELMAN, RAOUL; *ENERGY TRANSPORT IN MOLECULAR SOLIDS (DMR-8000679)*; 13 MONTHS $85,000

CLARKE, ROY; *X-RAY DIFFUSE SCATTERING STUDIES OF MATERIALS WITH REDUCED DIMENSIONALITY (DMR-8001655)*; 12 MONTHS $55,000

JONES, J W; *CLOSED-LOOP SERVO-HYDRAULIC MECHANICAL TEST SYSTEM (DMR-8014215)*; 12 MONTHS $22,757

WAYNE STATE UNIVERSITY

CHEN, JUEI-TENG, AND CHANG, JHY-JIUN; *JOSEPHSON VORTEX PROPERTIES AND NONEQUILIBRIUM SUPERCONDUCTIVITY (DMR-7817813 A01)*; 12 MONTHS $47,000

DUNIFER, GERALD L; *MILLIMETER-MICROWAVE INVESTIGATION OF METALS (DMR-7913786)*; 12 MONTHS $35,150

WENGER, L E; *CALORIMETRIC AND MAGNETIC STUDIES OF DISORDERED MAGNETIC MATERIALS (DMR-7921298)*; 12 MONTHS $37,815

ALEXANDER, RALPH B; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ION CHANNELING STUDIES OF SOLIDS (DMR-8007248*)*; 10 MONTHS $20,200

MINNESOTA

UNIVERSITY OF MINNESOTA

SCHMIDT, LANNY D; *STRUCTURE AND KINETICS IN GAS-SURFACE INTERACTIONS (DMR-7919233)*; 12 MONTHS $68,600

CAMPBELL, CHARLES E; *THEORY OF QUANTUM FLUIDS (DMR-7926447)*; 12 MONTHS $42,000

GOLDMAN, ALLEN M; *SINGLE-PARTICLE AND PAIR TUNNELING SPECTROSCOPY OF SUPERCONDUCTORS (DMR-8006959)*; 12 MONTHS $64,000

UNIVERSITY OF MINNESOTA AT SAINT PAUL

JENSEN, CRAIG L; *CONCENTRATION DEPENDENCE OF HYDROGEN ISOTOPE ELECTROMIGRATION IN TANTALUM (DMR-7925083)*; 24 MONTHS $41,670

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI

BOO, WILLIAM O; *PREPARATION AND STUDY OF LOWER VALENCE FLUORIDES OF VANADIUM AND RELATED MATERIALS (DMR-7900313 A01)*; 12 MONTHS $36,000

UNIVERSITY OF SOUTHERN MISSISSIPPI

GRIFFIN, ANSELM C; *EFFECT OF MOLECULAR STRUCTURE ON MESOMORPHIC BEHAVIOR (DMR-7805284 A01)*; 12 MONTHS $32,000

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

WOLFRAM, THOMAS; *SURFACE ELECTRONIC STRUCTURE OF D-BAND PEROVSKITES (DMR-7724227 A02)*; 12 MONTHS $23,895

TAUB, HASKELL; *NEUTRON SCATTERING STUDY OF THE STRUCTURE AND DYNAMICS OF ADSORBED HYDROCARBONS (DMR-7905958 A01*)*; 20 MONTHS $78,000

ANDERSON, HARLAN U; *LIQUID CORROSION OF CERAMICS (DMR-7909401 A01)*; 12 MONTHS $60,700

YELON, WILLIAM B; *MULTI-USE GAMMA RAY DIFFRACTOMETER FOR RESEARCH ON SOLIDS (DMR-7912508)*; 12 MONTHS $41,742

UNIVERSITY OF MISSOURI, ROLLA

WUTTIG, MANFRED R; *NONLINEAR ANELASTICITY OF METALS AND ALLOYS (DMR-7902628 A01)*; 12 MONTHS $66,411

DAY, DELBERT E; *THERMALLY STIMULATED CURRENTS IN ALKALI CONTAINING GLASSES (DMR-7918425)*; 12 MONTHS $43,654

FRIBERG, STIG E; *STRUCTURES OF DISPERSED LYOTROPIC LIQUID CRYSTALLINE PHASES (DMR-8010690)*; 12 MONTHS $40,800

WASHINGTON UNIVERSITY

BOLEF, DAN I, AND SUNDFORS, RONALD K; *ACOUSTIC MAGNETIC RESONANCE STUDIES OF METAL HYDRIDES, BULK METALS AND PARAMAGNETIC INSULATORS (DMR-7811567 A02)*; 12 MONTHS $90,000

KARDOS, JOHN L; *A MOLECULAR COMPOSITE APPROACH TO ADVANCED POLYMERIC SOLIDS (DMR-7812806 A02)*; 12 MONTHS $61,300

FEDDERS, PETER A; *DYNAMICAL CORRELATION FUNCTIONS FOR SPIN SYSTEMS AND HOPPING SYSTEMS (DMR-7918044)*; 12 MONTHS $20,000

YARIS, ROBERT, AND SCHAEFER, JACOB F; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: RELAXATION STUDIES ON GLASSY POLYMERS (DMR-8007025*)*; 12 MONTHS $10,000

CLARK, JOHN W; *MICROSCOPIC THEORY OF QUANTUM FLUIDS AND EXTENDED NUCLEAR SYSTEMS (DMR-8008229*)*; 12 MONTHS $20,000

NORBERG, RICHARD E, AND LUSZCZYNSKI, KAZIMIERZ; *PULSED MAGNETIC RESONANCE AND OTHER STUDIES AT LOW TEMPERATURES (DMR-8010818)*; 12 MONTHS $95,000

MONTANA

MONTANA STATE UNIVERSITY

SCHMIDT, V HUGO; *TRICRITICAL PHENOMENA AND DYNAMICS OF HYDROGEN-BONDED CRYSTALS (DMR-7809205 A01)*; 12 MONTHS $52,000

SCHMIDT, V HUGO; *TRICRITICAL PHENOMENA AND DYNAMICS OF HYDROGEN-BONDED CRYSTALS (DMR-7809205 A02)*; 12 MONTHS $51,008

CONE, RUFUS L; *COHERENT LASER STUDIES OF DYNAMIC AND COOPERATIVE PHENOMENA IN SOLIDS (DMR-7906892)*; 12 MONTHS $52,100

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

SELLMYER, DAVID J; *ELECTRONS IN COMPLEX SOLIDS (DMR-7810781 A02)*; 12 MONTHS $59,000

ECKHARDT, CRAIG J; *PIEZOMODULATION SPECTROSCOPY OF MOLECULAR CRYSTALS (DMR-7908759 A01)*; 14 MONTHS $109,000

KIRBY, ROGER D; *RAMAN AND FAR-INFRARED STUDIES OF INSTABILITIES IN TRANSITION METAL COMPOUNDS (DMR-7910025)*; 12 MONTHS $36,000

SELLMYER, DAVID J; *ACQUISITION OF A CLOSED-CYCLE HELIUM LIQUEFACTION SYSTEM (DMR-7910802)*; 12 MONTHS $77,000

BASHARA, NICOLAS M; *INTERFACE AND DEPTH INHOMOGENEITY BY ELLIPSOMETRY (DMR-7920343)*; 12 MONTHS $34,875

NEW HAMPSHIRE

DARTMOUTH COLLEGE

STOCKMAYER, WALTER H; *PHYSICAL CHEMISTRY OF POLYMER SOLUTIONS (DMR-7913227 A01)*; $5,800

STOCKMAYER, WALTER H; *PHYSICAL CHEMISTRY OF POLYMER SOLUTIONS (DMR-7913227 A02)*; 14 MONTHS $63,700

NEW JERSEY

ELECTROCHEMICAL SOCIETY

WEIL, ROLF; *ELECTROCRYSTALLIZATION SYMPOSIUM - HOLLYWOOD, FLORIDA OCTOBER 5-8, 1980 (CPE-8007182*)*; 6 MONTHS $4,000

PRINCETON UNIVERSITY

SOOS, ZOLTAN G; *THEORETICAL MODELS FOR LOW-DIMENSIONAL EXCHANGE-COUPLED INORGANIC AND ORGANIC CRYSTALS (DMR-7727418 A02*)*; 12 MONTHS $18,900

ANDERSON, PHILIP W; *APPLICATIONS OF MANY-BODY THEORY (DMR-7803015 A02)*; 12 MONTHS $81,910

AUSTIN, ROBERT H; *EXPERIMENTAL AND THEORETICAL STUDIES ON THE PHYSICS OF BIOLOGICAL MOLECULES (DMR-7805916 A02)*; 5 MONTHS $27,500

DECONDE, KEITH; *EXPERIMENTS ON SUPERFLUID HELIUM THREE AND DISORDERED SOLIDS (DMR-7904141 A01)*; 12 MONTHS $44,700

RUTGERS UNIVERSITY-BUSCH CAMPUS

WEISSMANN, SIGMUND; *INFLUENCE OF PLASTIC AND ELASTIC STRAINS ON STRENGTH AND FRACTURE OF MATERIALS AND ON ELECTRICAL PROPERTIES OF SEMICONDUCTORS (DMR-7805930 A02)*; 12 MONTHS $51,773

HERBER, ROLFE H; *MOSSBAUER EFFECT STUDIES IN SOLID STATE CHEMISTRY (DMR-7808615 A02)*; 12 MONTHS $49,900

STEPHEN, MICHAEL J; *THEORY OF PHASE TRANSITIONS IN RANDOM SYSTEMS (DMR-7810276 A02)*; 12 MONTHS $41,000

TSAKALAKOS, THOMAS; *SUPERMODULUS EFFECT IN BULK ALLOYS (DMR-7826503 A01)*; 12 MONTHS $34,778

SAUER, J A, AND MORROW, D R; *ENHANCEMENT OF CRAZE AND FATIGUE RESISTANCE IN GLASSY POLYMERS (DMR-7827558 A01)*; 12 MONTHS $53,100

LANGRETH, DAVID C; *ELECTRON CORRELATIONS AND PROPERTIES OF METALS AND INSULATORS (DMR-8007470)*; 12 MONTHS $40,900

GLABERSON, WILLIAM I; *ACQUISITION OF HELIUM LIQUEFIER AND RENOVATION OF RECOVERY SYSTEM (DMR-8008217)*; 24 MONTHS $130,000

KLEIN, LISA C; *KINETICS OF THE SOL-GEL TRANSITION (DMR-8012902)*; 24 MONTHS $45,000

RUTGERS UNIVERSITY

MANNING, GERALD S; *FURTHER DEVELOPMENT OF POLYELECTROLYTE THEORY (DMR-7819289 A01)*; 12 MONTHS $20,700

LINDENFELD, PETER, AND MCLEAN, WILLIAM L; *THERMAL, ELECTRICAL, AND MAGNETIC MEASUREMENTS ON GRANULAR ALUMINUM (DMR-7824213 A01)*; 12 MONTHS $81,600

GLABERSON, WILLIAM I; *AN EXPERIMENTAL STUDY OF SUPERFLUID HELIUM (DMR-7825409 A01)*; 12 MONTHS $61,500

KOLLER, NOEMIE; *HYPERFINE INTERACTIONS AND ELECTRONIC STRUCTURE BY MOSSBAUER/CONVERSION ELECTRON SPECTROSCOPY (DMR-7900816 A01)*; 12 MONTHS $58,000

ABRAHAMS, ELIHU, AND SAK, JOSEPH; *THEORETICAL SOLID STATE PHYSICS (DMR-7921360)*; 12 MONTHS $66,000

SETON HALL UNIVERSITY

ANDER, PAUL; *THE INTERACTIONS OF COIONS WITH POLYCATIONS (DMR-7710237 A01)*; 12 MONTHS $30,000

STEVENS INSTITUTE OF TECHNOLOGY

STIVALA, SALVATORE S; *ASSESSMENT OF BRANCHING IN POLYMERS USING SMALL-ANGLE X-RAY SCATTERING (DMR-8005104)*; 12 MONTHS $43,900

TEXTILE RESEARCH INSTITUTE

WEIGMANN, HANS D; *SURFACE-CONTROLLED CRYSTALLIZATION OF FIBROUS POLYMERS (DMR-7905980 A01)*; 12 MONTHS $59,600

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

MEYERS, MARC A; *AN INVESTIGATION INTO THE EFFECTS OF GRAIN SIZE AND PREDEFORMATION ON THE ATTENUATION OF SHOCK WAVES IN NICKEL (DMR-7927102)*; 12 MONTHS $37,216

MEYERS, MARC A, AND MURR, LAWRENCE E; *AN INTERNATIONAL CONFERENCE ON THE METALLURGICAL EFFECTS OF HIGH STRAIN-RATE DEFORMATION AND FABRICATION, JUNE 22-26, 1980, ALBUQUERQUE, NEW MEXICO (DMR-8000021)*; 12 MONTHS $4,045

UNIVERSITY OF NEW MEXICO

ELLISON, JAMES A; *THEORETICAL INVESTIGATIONS OF PARTICLE CHANNELING (DMR-7926264)*; 12 MONTHS $12,000

NEW YORK

ADELPHI UNIVERSITY

RUDMAN, REUBEN; *CALORIMETRIC AND X-RAY STUDIES OF ORIENTATIONAL DISORDER IN CRYSTALS (DMR-7825865 A01)*; 12 MONTHS $39,500

ALFRED UNIVERSITY

REED, JAMES S; *FABRICATION SCIENCE IN FINE GRAINED TECHNICAL CERAMICS: PRESINTERING STAGES (DMR-7811661 A02)*; 12 MONTHS $28,645

CITY COLLEGE

CUMMINS, HERMAN Z; *LASER LIGHT SCATTERING STUDIES OF SOLIDS (DMR-7723788 A02)*; 12 MONTHS $65,200

BIRMAN, JOSEPH L; *THEORETICAL SOLID STATE PHYSICS (DMR-7812399 A02)*; 12 MONTHS $53,998

ALFANO, ROBERT R; *SPIN ALIGNED ELECTRONS IN SEMICONDUCTORS (DMR-7817805 A01)*; 12 MONTHS $42,000

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

SMID, JOHANNES; *MACROHETEROCYCLIC LIGANDS ON POLYMERS: SOLUTE BINDING AND CATALYSIS (CHE-7905890 A01)*; 12 MONTHS $10,000

COLUMBIA UNIVERSITY

KELLOGG, HERBERT H, AND DUBY, PAUL; *METALLURGICAL CHEMISTRY RELATED TO TREATMENT OF NON-FERROUS SULFIDE CONCENTRATES (DMR-7804073 A02)*; 12 MONTHS $72,648

TIEN, JOHN K; *CAPILLARITY-DRIVEN MORPHOLOGICAL CHANGES IN MODEL, SUPPORTED CATALYST SYSTEMS (DMR-7806273 A01)*; 12 MONTHS $13,004

LUTTINGER, J M; *THEORETICAL SOLID STATE PHYSICS (DMR-7923360)*; 12 MONTHS $38,000

MACHLIN, EUGENE S; *INTERATOMIC POTENTIALS TO STUDY PHYSICAL PHENOMENA IN ALLOY SYSTEMS (DMR-8004237)*; 12 MONTHS $56,510

NOWICK, ARTHUR S; *DEFECTS AND DEFECT MOBILITY IN IONIC CRYSTALS (DMR-8006126)*; 12 MONTHS $45,900

HARTMANN, SVEN R; *SPECTROSCOPY, RELAXATION, AND EXCITATION TRANSFER OF OPTICALLY EXCITED STATES IN SOLIDS (DMR-8006966)*; 12 MONTHS $27,500

TIEN, JOHN K; *HIGH TEMPERATURE CREEP, STRESS RUPTURE, AND CRACK GROWTH IN MULTIPHASE ALLOYS (DMR-8011402)*; 8 MONTHS $40,000

CORNELL UNIVERSITY

FISHER, MICHAEL E; *STATISTICAL MECHANICS AND PHASE TRANSITIONS (DMR-7723561 A02)*; 12 MONTHS $75,100

BAUER, SIMON H; *HOMOGENEOUS CONDENSATION OF METAL VAPORS - PHYSICAL AND CHEMICAL CHARACTERIZATION OF THE CONDENSATES (DMR-7810307 A01)*; 12 MONTHS $36,000

SCOTT, J C; *ELECTRONIC PROPERTIES OF NIOBIUM AND TANTALUM CHALCOGENIDES (DMR-7909177)*; 12 MONTHS $28,000

SASS, S L; *DIFFRACTION STUDIES OF GRAIN BOUNDARY STRUCTURES IN FACE-CENTERED-CUBIC METALLIC MATERIALS (DMR-7916331)*; 12 MONTHS $94,873

RHODIN, THOR N; *ELECTRONIC STRUCTURE OF PROTOTYPE ADSORBATE-MODIFIED METAL SURFACES (DMR-7919547)*; 12 MONTHS $64,400

KRAMER, EDWARD J; *FUNDAMENTALS OF ENVIRONMENTAL FRACTURE IN POLYMERS (DMR-7919928)*; 12 MONTHS $57,600

JOHNSON, HERBERT H; *INTERDISCIPLINARY MATERIALS RESEARCH (DMR-7924008)*; 12 MONTHS $3,080,000

GRUBB, DAVID T; *ANNEALING OF CRYSTALLINE POLYMERS (DMR-7925043)*; 24 MONTHS $62,700

BLAKELY, JOHN M; *SEGREGATION, ADSORPTION AND REACTIONS AT METAL SURFACES (DMR-7926443)*; 12 MONTHS $110,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

FREED, JACK H; *MOLECULAR DYNAMICS, STRUCTURE, AND PHASE TRANSITIONS IN LIQUID CRYSTALLINE MEDIA: ELECTRON SPIN RESONANCE (ESR) STUDIES (DMR-7717510 A02)*; 12 MONTHS $51,000

AMBEGAOKAR, VINAY, ASHCROFT, NEIL W, CHESTER, GEOFFREY V, MERMIN, N D, AND WILKINS, JOHN W; *THEORETICAL RESEARCH IN CONDENSED MATTER PHYSICS (DMR-7718329 A02)*; 12 MONTHS $215,000

REPPY, JOHN D; *PROGRAM OF RESEARCH IN THE STUDY OF QUANTUM FLUIDS (DMR-7724221 A02)*; 12 MONTHS $70,800

BATTERMAN, B W, AND ASHCROFT, NEIL W; *ESTABLISHMENT OF A HIGH ENERGY X-RAY SYNCHROTRON RADIATION LABORATORY (DMR-7801267 A02)*; 12 MONTHS $387,191

POHL, ROBERT O; *LOW TEMPERATURE THERMAL PROPERTIES OF AMORPHOUS SOLIDS: NITRATE GLASSES (DMR-7801560 A02)*; 12 MONTHS $56,000

RICHARDSON, ROBERT C; *LOW TEMPERATURE PROPERTIES OF HELIUM - 3 (DMR-7802655 A02)*; 12 MONTHS $88,000

RICHARDSON, ROBERT C; *LOW TEMPERATURE PROPERTIES OF HELIUM-3 (DMR-7802655 A03)*; $19,300

SILCOX, JOHN; *ELECTRON SPECTROMETRY OF SOLID SYSTEMS (DMR-7809204 A02)*; 12 MONTHS $59,953

LEE, DAVID M; *SUPERFLUID HELIUM-3 IN HIGH MAGNETIC FIELDS (DMR-7810901 A02)*; 12 MONTHS $66,500

SIENKO, M J; *PHASE RELATIONS AND ELECTRON-ELECTRON INTERACTIONS IN THE SYSTEM LITHIUM-METHYLAMINE (DMR-7812238 A02)*; 12 MONTHS $60,600

MAHR, HERBERT; *ULTRAFAST ELECTRONIC RELAXATION OF HIGHLY PHOTO-EXCITED MATERIALS (DMR-7816751 A01)*; 12 MONTHS $39,000

LEE, DAVID M, AND FREED, JACK H; *HYDROGEN ATOMS AND OTHER SIMPLE FREE RADICALS AT LOW TEMPERATURES AND AT HIGH MAGNETIC FIELDS (DMR-7822204 A01)*; 12 MONTHS $40,000

COTTS, ROBERT M; *EXPERIMENTAL INVESTIGATION OF HYDROGEN DIFFUSION IN METALS (DMR-7925373)*; 12 MONTHS $51,000

WEBB, WATT W; *SOME NON-LINEAR TRANSPORT FLUCTUATIONS IN CONDENSED MATTER (DMR-8006513)*; 12 MONTHS $33,300

SILSBEE, ROBERT H; *ELECTRON SPIN RESONANCE (DMR-8006546)*; 12 MONTHS $50,000

INTERNATIONAL BUSINESS MACHINES CORPORATION-T J WATSON RESEARCH CENTER

PANTELIDES, SOKRATES T; *WORKSHOP ON EFFECTIVE ONE-ELECTRON POTENTIALS IN REAL MATERIALS, OSSINING, NEW YORK ON MARCH 21-22, 1980 (DMR-8011083)*; 6 MONTHS $5,000

NEW YORK ACADEMY OF SCIENCES

MORAWETZ, HERBERT; *CONFERENCE ON LUMINESCENCE FROM MACROMOLECULES, BIOLOGICAL AND SYNTHETIC: EIGHTH KATZIR ME-*

MORIAL CONFERENCE, NEW YORK CITY, JUNE 16-19, 1980 (DMR-7923273);* 12 MONTHS $3,000

O REILLY, JAMES M, AND GOLDSTEIN, MARTIN; *CONFERENCE ON MOLECULAR MOBILITY AND STRUCTURE OF GLASSES, DECEMBER 9-11, 1980; NEW YORK, NEW YORK (DMR-8005367*);* 12 MONTHS $5,000

NEW YORK UNIVERSITY

LEVY, PETER M; *THEORY OF ORBITAL EFFECTS IN RARE-EARTH COMPOUNDS (DMR-7825008 A01*);* 12 MONTHS $42,300

WILLIAMSON, SAMUEL J; *ELECTRONIC AND MAGNETIC PROPERTIES OF SOLIDS AT LOW TEMPERATURES (DMR-7917401);* 12 MONTHS $54,000

POLYTECHNIC INSTITUTE OF NEW YORK

MORAWETZ, HERBERT; *POLYMER STUDIES BY FLUORESCENCE AND CRYSTALLOGRAPHIC TECHNIQUES (DMR-7705210 A03);* 12 MONTHS $71,000

PEARCE, ELI M; *INDUSTRY UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ALIPHATIC POLYAMIDES AND DEFECTS IN THEIR CHEMICAL STRUCTURE - LONG TERM ENVIRONMENTAL EFFECTS (DMR-7809292 A02*);* 12 MONTHS $32,400

OKAMOTO, Y, AND BANKS, EPHRAIM; *POLYMERS CONTAINING RARE-EARTH METALS (DMR-7809764 A01);* 28 MONTHS $112,500

POST, BENJAMIN; *MULTIPLE X-RAY DIFFRACTION EFFECTS IN CRYSTALS (DMR-7920419);* 12 MONTHS $52,416

MARGOLIN, HAROLD; *ACQUISITION OF CLOSED LOOP ELECTROHYDRAULIC SYSTEM AND LOAD CONTROL (DMR-7927256);* 12 MONTHS $20,000

PARKS, RONALD D; *EXPERIMENTAL STUDIES OF ANDERSON LATTICE SYSTEMS (DMR-8005099);* 12 MONTHS $57,500

MORAWETZ, HERBERT; *MARK '85 SYMPOSIUM ON MACROMOLECULES: NEW YORK, NEW YORK; MAY 1-2 1980 (DMR-8007233);* 6 MONTHS $5,000

QUEENS COLLEGE

CADIEU, FRED J; *SUPERCONDUCTIVITY IN TRANSITION METAL SUBSTITUTED A-15 SYSTEMS (DMR-7803217 A01);* 15 MONTHS $52,000

RENSSELAER POLYTECHNIC INSTITUTE

GLICKSMAN, MARTIN E; *SOLUTE REDISTRIBUTION DURING SOLIDIFICATION (DMR-7721638 A02);* 12 MONTHS $46,007

TOMOZAWA, MINORU; *ELECTRIC FIELD EFFECT ON MOBILITY OF GLASS CONSTITUENTS (DMR-7800727 A01);* 12 MONTHS $42,000

ANSELL, GEORGE S; *SOFT MODE PHENOMENA IN IRON-NICKEL-CHROMIUM-CARBON STEELS (DMR-7804065 A02);* 12 MONTHS $37,480

WRIGHT, ROGER N; *HIGH TEMPERATURE PLASTIC FLOW IN A15 SUPERCONDUCTING COMPOUNDS (DMR-7805726 A02);* 12 MONTHS $52,890

WUNDERLICH, BERNHARD; *THE SOLID STATE OF LINEAR MACROMOLECULES (DMR-7815279 A01);* 12 MONTHS $65,800

WUNDERLICH, BERNHARD; *THE SOLID STATE OF LINEAR MACROMOLECULES (DMR-7815279 A02);* $9,000

KRAUSE, SONJA; *PHASE DIMENSIONS AND GLASS TRANSITION TEMPERATURES OF BLOCK COPOLYMERS AND POLYMER MIXTURES (DMR-7820774 A01);* 12 MONTHS $37,100

KRAUSE, SONJA; *PHASE DIMENSIONS AND GLASS TRANSITION TEMPERATURES OF BLOCK COPOLYMERS AND POLYMER MIXTURES (DMR-7820774 A02);* $8,400

HUNTINGTON, HILLARD B; *ELECTROMIGRATION IN METALS (DMR-7925026);* 12 MONTHS $50,000

DOREMUS, ROBERT H; *MECHANISMS OF THE REACTIONS OF WATER WITH GLASS (DMR-8006091);* 12 MONTHS $48,000

MAC CRONE, ROBERT K; *MAGNETIC STUDIES OF TRANSITION METAL IONS IN OXIDE GLASSES (DMR-8011439);* 12 MONTHS $49,900

TOMOZAWA, MINORU; *ACQUISITION OF ATOMIC ABSORPTION SPECTROPHOTOMETER (DMR-8013714);* 12 MONTHS $13,536

STATE UNIVERSITY AT ALBANY

FRISCH, HARRY L; *MACROMOLECULAR ARCHITECTURE AND POLYMERIC SYSTEMS (DMR-7805938 A02);* 12 MONTHS $45,600

ROTH, LAURA M; *ELECTRONIC STRUCTURE AND MAGNETIC EXCITATIONS IN DISORDERED MATERIALS (DMR-7925374);* 12 MONTHS $30,000

STATE UNIVERSITY AT BUFFALO

REICHERT, JONATHAN F; *MAGNETIC RESONANCE PROPERTIES OF IONS IN NOBLE GAS LIQUIDS AND SOLIDS (DMR-7823973 A01);* 12 MONTHS $33,500

GASPARINI, FRANCIS M; *HELIUM THREE AND HELIUM FOUR IN THE TWO DIMENSIONAL AND THREE DIMENSIONAL LIMIT (DMR-8007302);* 12 MONTHS $49,000

STATE UNIVERSITY AT STONY BROOK

ALLEN, PHILIP B; *SUPERCONDUCTIVITY AND RELATED PROPERTIES OF D-BAND METALS (DMR-7900837 A01);* 12 MONTHS $[illegible],000

MC COY, BARRY; *MODEL SYSTEMS (DMR-7908556 A01*);* 12 MONTHS $18,000

JONA, FRANCO; *NEW ASPECTS OF SURFACE CRYSTALLOGRAPHY BY LEED (DMR-7909691);* 12 MONTHS $70,000

JONA, FRANCO; *NEW ASPECTS OF SURFACE CRYSTALLOGRAPHY BY LEED (DMR-7909691 A01);* $11,800

KAO, YI-HAN; *STUDIES OF PHYSICAL PROPERTIES OF SUPERCONDUCTING WEAK LINKS (DMR-8006089);* 12 MONTHS $50,000

SYRACUSE UNIVERSITY

SCHWARZ, JAMES A, AND LIU, HAO-WEN; *THE ROLE OF ADSORPTION IN HYDROGEN EMBRITTLEMENT (DMR-7800871 A02);* 12 MONTHS $63,058

UNIVERSITY OF ROCHESTER

DOUGLASS, DAVID H; *EXPERIMENTAL STUDIES AT LOW TEMPERATURES (DMR-7810260 A02);* 12 MONTHS $50,400

LI, JAMES C; *MECHANICAL PROPERTIES OF AMORPHOUS MATERIALS (DMR-7812807 A01);* 12 MONTHS $77,500

DOUGLASS, DAVID H; *PURCHASE OF HELIUM LIQUEFACTION FACILITY (DMR-7911688);* 24 MONTHS $105,000

KENKRE, V M; *THEORETICAL STUDIES OF FRENKEL EXCITON MOTION IN MOLECULAR CRYSTALS (DMR-7919539);* 12 MONTHS $23,000

QUESNEL, DAVID J; *ACTIVATION PARAMETERS OF CYCLIC DEFORMATION (DMR-7923028);* 24 MONTHS $77,883

SCEATS, MARK G; *DYNAMICAL PROCESSES IN CONDENSED MATTER (DMR-7926446);* 12 MONTHS $36,000

CASTNER, THEODORE G; *MAGNETIC AND ELECTRICAL STUDIES ON DOPED SEMICONDUCTORS ON THE INSULATING SIDE OF THE METAL NON-METAL TRANSITION (DMR-8007625);* 12 MONTHS $55,800

NORTH CAROLINA

DUKE UNIVERSITY

MEYER, HORST; *PROPERTIES OF FLUID HELIUM NEAR CRITICAL POINTS (DMR-7720827 A02);* 12 MONTHS $64,500

MEYER, HORST; *PROPERTIES OF THE QUANTUM SOLIDS H2 AND D2 (DMR-7805378 A03);* 12 MONTHS $38,000

KRIGBAUM, WILLIAM R; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: PHYSICO-CHEMICAL STUDIES OF RODLIKE AND SEMI-FLEXIBLE CHAIN POLYMERS (DMR-7808451 A03*);* 12 MONTHS $21,700

PALMER, RICHARD G; *THEORETICAL SPIN GLASS MODELS (DMR-8011937);* 12 MONTHS $12,000

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

SCHETZINA, J F; *PROPERTIES OF ANISOTROPIC RELAXATION SEMICONDUCTORS (DMR-7911336 A01*);* 12 MONTHS $43,890

HAASE, DAVID G, AND KLENIN, MARJORIE; *STUDY OF GLASS-LIKE ORDERING IN QUADRUPOLAR SOLIDS (DMR-7923202);* 12 MONTHS $62,000

LUCOVSKY, GERALD; *AN INTERNATIONAL TOPICS CONFERENCE ON THE PHYSICS OF MOS INSULATORS; JUNE 18-20, 1980, RALEIGH, NORTH CAROLINA (DMR-8003288*);* 6 MONTHS $5,000

SAYERS, DALE E; *STRUCTURE AND ELECTRONIC PROPERTIES OF SUPPORTED METAL CATALYSTS AND RELATED METAL CLUSTER SYSTEMS (DMR-8011946);* 17 MONTHS $70,000

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

SLIFKIN, LAWRENCE M; *POINT DEFECTS IN IONIC CRYSTALS: ROLE OF THE SURFACE CHARGE (DMR-7809198 A02);* 12 MONTHS $54,700

ROBERTS, LOUIS D; *METALS AND ALLOYS (DMR-7818916 A01);* 12 MONTHS $64,000

SILVER, MARVIN; *TIME-DEPENDENT PERCOLATION APPROACH TO DIFFUSION AND DRIFT IN TOPOLOGICALLY DISORDERED MATERIALS (DMR-7920023);* 12 MONTHS $56,100

MACDONALD, J ROSS; *SPACE CHARGE DYNAMICS AND INTERFACIAL KINETICS IN SOLIDS AND LIQUIDS (DMR-8005236);* 12 MONTHS $40,000

HATFIELD, WILLIAM E; *ACQUISITION OF A MOSSBAUER SPECTROMETER (DMR-8006325);* 12 MONTHS $15,000

OHIO

AMERICAN CERAMIC SOCIETY

SEELEY, CLARENCE E, AND FIDOTEN, ROBERT E; *INTERNATIONAL CONGRESS ON GLASS XII IN ALBUQUERQUE, NEW MEXICO, JULY 6-11, 1980 (DMR-7926527);* 12 MONTHS $15,000

BATTELLE MEMORIAL INSTITUTE

MARKWORTH, ALAN J; *COMPUTER SIMULATION OF EFFECTS OF HYDROGEN ON MECHANICAL PROPERTIES OF METALS (DMR-7805714 A01);* 12 MONTHS $43,404

BOWLING GREEN STATE UNIVERSITY

NECKERS, DOUGLAS C; *SYNTHESIS OF POLYMERS STABLE TO ULTRAVIOLET RADIATION (DMR-7808493 A02);* 12 MONTHS $32,500

CASE WESTERN RESERVE UNIVERSITY

HEUER, ARTHUR H; *MICROSTRUCTURAL STUDIES IN ZIRCONIA-BASED CERAMICS (DMR-7719163 A02);* 12 MONTHS $60,755

GIBALA, RONALD; *HARDENING AND SOFTENING OF METALLIC MATERIALS BY SURFACE COATINGS (DMR-7805713 A02);* 12 MONTHS $49,483

COOPER, ALFRED R; *STRENGTHENING OF GLASS (DMR-7808574 A02);* 12 MONTHS $72,025

TAYLOR, PHILIP L; *THERMOELECTRIC EFFECTS IN METALS AND ALLOYS (DMR-7822461 A01);* 12 MONTHS $29,800

HEUER, ARTHUR H, AND KOENIG, JACK L; *MATERIALS RESEARCH LABORATORY (DMR-7824150 A01);* 12 MONTHS $550,000

THOMPSON, ERIC D; *ATOMIC SCATTERING FROM SOLIDS (DMR-7901658 A01);* 12 MONTHS $43,000

JAMIESON, ALEXANDER M, AND SIMHA, ROBERT; *LASER LIGHT SCATTERING IN THE LIQUID AND GLASSY STATES OF ORGANIC POLYMERS (DMR-7906360 A01);* 12 MONTHS $52,100

CAHAN, B D; *CONTINUING STUDIES OF THE PASSIVATION OF IRON AND FERROUS ALLOYS USING IN SITU OPTICAL AND ELECTRON SPECTROSCOPIC TECHNIQUES (DMR-7909970 A01);* 12 MONTHS $55,249

WALLACE, JOHN F, MAIER, RALPH D, AND MULLER, CHARLES L; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FORMA-*

TION AND CONTROL OF COMPACTED GRAPHITE STRUCTURE IN CAST IRON (DMR-7913193);* 24 MONTHS $25,064

DAHM, ARNOLD J; *WIGNER LATTICES IN TWO DIMENSIONS (DMR-7920833);* 12 MONTHS $57,000

TAYLOR, PHILIP L, AND HOPFINGER, A J; *INTERNATIONAL SYMPOSIUM ON THE STATISTICAL MECHANICS OF PHASE TRANSITIONS IN POLYMERS; JUNE 11-13, 1980; CLEVELAND, OHIO (DMR-7924361*);* 12 MONTHS $5,000

HEUER, ARTHUR H, AND HOBBS, L W; *THE FIRST INTERNATIONAL CONFERENCE ON THE SCIENCE AND TECHNOLOGY OF ZIRCONIA, JUNE 17-19, 1980, CLEVELAND, OHIO (DMR-8001926);* 12 MONTHS $3,000

KOENIG, JACK L; *IMPROVED SPECTROSCOPIC CHARACTERIZATION OF POLYMER SYSTEMS (DMR-8011185);* 16 MONTHS $55,600

SIMHA, ROBERT; *STATISTICAL THERMODYNAMICS OF POLYMERS: MIXTURES AND GLASSES (DMR-8012232);* 17 MONTHS $64,400

HOBBS, L W; *MICROSTRUCTURAL DEVELOPMENT OF OXIDE AND SUBSTRATE DURING OXIDATION OF NICKEL AND NICKEL-BASE ALLOYS (DMR-8016443);* 12 MONTHS $61,500

JOHN CARROLL UNIVERSITY

TRIVISONNO, JOSEPH J; *ELECTRON AND PHONON INTERACTIONS IN SOLIDS (DMR-8011978);* 12 MONTHS $32,200

KENT STATE UNIVERSITY

DE-VRIES, ADRIAAN; *X-RAY DIFFRACTION STUDIES OF THE STRUCTURES OF LIQUID CRYSTALS (DMR-7826495 A01);* 12 MONTHS $48,200

DOANE, J W; *NUCLEAR MAGNETIC RESONANCE STUDIES OF ORIENTATIONAL ORDER IN LIQUID CRYSTALS (DMR-7904393 A01);* 12 MONTHS $52,500

JOHNSON, DAVID L; *THERMAL AND OPTICAL STUDY OF LIQUID CRYSTAL PHASES AND PHASE TRANSITIONS (DMR-7906330 A01);* 13 MONTHS $61,400

SAUPE, ALFRED; *PHYSICAL PROPERTIES OF AMPHIPHILIC NEMATIC SYSTEMS (DMR-7907789 A01);* 12 MONTHS $46,100

MADEY, RICHARD, AND JOHNSON, DAVID L; *INSTRUMENTATION: HIGH PRESSURE LIQUID CHROMATOGRAPHY FACILITY (DMR-8000675);* 12 MONTHS $33,300

OHIO STATE UNIVERSITY

RIGNEY, DAVID A; *WEAR AND FRICTION OF METALLIC MATERIALS (DMR-7805719 A01);* 12 MONTHS $75,788

GAINES, JAMES R; *PHASE TRANSITION IN SOLID HYDROGEN ALLOYS AND OTHER DISORDERED SYSTEMS (DMR-7807527 A03);* 12 MONTHS $51,000

GARLAND, JAMES C; *LOW TEMPERATURE TRANSPORT PHENOMENA IN METALS (DMR-7809438 A02);* 12 MONTHS $54,581

SHEWMON, PAUL G; *PRINCIPLES OF METAL EROSION RESISTANCE (DMR-7810013 A02);* 12 MONTHS $45,902

STROUD, DAVID G, KORRINGA, JAN, AND MILLS, ROBERT L; *WAVE PROPERTIES OF HETEROGENEOUS MATERIALS (DMR-7811770 A02);* 12 MONTHS $53,500

READEY, DENNIS W; *GASEOUS AND AQUEOUS CORROSION OF CERAMICS (DMR-7812810 A02);* 12 MONTHS $44,769

HIRTH, JOHN P; *DUCTILE FRACTURE AND HYDROGEN EMBRITTLEMENT (DMR-7815735 A01);* 12 MONTHS $62,282

EDWARDS, DAVID O; *LIQUID HELIUM AT LOW TEMPERATURES (DMR-7901073 A01);* 12 MONTHS $87,000

RAPP, ROBERT A; *HOT CORROSION OF METALS AND ALLOYS BY FUSED SALTS (DMR-7911910 A01);* 12 MONTHS $95,335

TOUGH, J T; *SUPERFLUID TURBULENCE (DMR-7925089*);* 12 MONTHS $46,100

WIGEN, PHILIP E; *MAGNETIC RESONANCE IN FERROMAGNETIC DOMAIN WALLS (DMR-8007642);* 12 MONTHS $52,664

HOAGLAND, RICHARD G; *AN ANALYSIS OF MICROSTRUCTURE AND TOUGHNESS OF CERAMICS (DMR-8013340);* 5 MONTHS $18,500

RIGNEY, DAVID A; *SYMPOSIUM ON FUNDAMENTALS OF FRICTION AND WEAR OF MATERIALS, PITTSBURGH, PA, OCT. 4-5, 1980 (DMR-8019439);* 12 MONTHS $4,046

UNIVERSITY OF AKRON MAIN CAMPUS

KENNEDY, JOSEPH P; *CATIONIC POLYMERIZATIONS (DMR-7727618 A02);* 12 MONTHS $57,500

MORTON, MAURICE; *ORGANOLITHIUM POLYMERIZATION SYSTEMS (DMR-7809024 A02);* 12 MONTHS $34,800

FETTERS, LEWIS J, AND KELLEY, FRANK N; *MODEL BRANCHED POLYMERS (DMR-7908299 A01);* 12 MONTHS $61,400

FETTERS, LEWIS J; *ACQUISITION OF LOW-ANGLE LIGHT-SCATTERING APPARATUS (DMR-7923288);* 12 MONTHS $32,000

HARWOOD, H JAMES; *CHARACTERIZATION OF POLYMER STRUCTURE (DMR-8010709);* 12 MONTHS $49,900

UNIVERSITY OF CINCINNATI

BOOLCHAND, PUNIT; *CLOSED CYCLE REFRIGERATOR FOR MOSSBAUER INVESTIGATIONS ON AMORPHOUS SEMICONDUCTORS (DMR-7918005);* 12 MONTHS $7,700

MARK, JAMES E; *PROPERTIES OF HIGHLY ELASTIC POLYMERIC MATERIALS (DMR-7918903);* 12 MONTHS $55,700

NEWROCK, RICHARD S; *SUPERCONDUCTING AND NORMAL GRANULAR METALS (DMR-7921989);* 12 MONTHS $46,000

ROE, R J; *STRUCTURAL RELAXATION IN GLASSY POLYMERS (DMR-8004236);* 24 MONTHS $90,000

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

SIBLEY, WILLIAM A; *MAGNETIC IMPURITIES AND RADIATION DEFECTS IN PEROVSKITE AND RUTILE STRUCTURED MATERIALS (DMR-7712594 A03);* 12 MONTHS $35,830

POWELL, RICHARD C; *USE OF LASER SPECTROSCOPY TECHNIQUES FOR INVESTIGATING ENERGY TRANSFER AMONG IONS IN CRYSTALS (DMR-7916152);* 12 MONTHS $25,000

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

FRECH, ROGER E; *FAST ION CONDUCTIVITY IN MIXED CATION SULFATE CRYSTALS (DMR-8001666);* 12 MONTHS $45,700

OREGON

OREGON GRADUATE CENTER

BLAKEMORE, JOHN S; *DEEP-LEVEL IMPURITIES IN SEMICONDUCTORS (DMR-7916454*);* 12 MONTHS $47,000

OREGON STATE UNIVERSITY

CUTLER, MELVIN, AND GARDNER, JOHN A; *ELECTRONIC PROPERTIES OF LIQUID SEMICONDUCTORS (DMR-7719035 A03);* 12 MONTHS $68,500

WICKMAN, H H; *MAGNETIC STUDIES OF IRON (III) BIS (DITHIOCARBAMATES) AND IRON (III) BIS (DISELENOCARBAMATES) (DMR-7808452 A02);* 16 MONTHS $52,700

UNIVERSITY OF OREGON - EUGENE

LOWNDES, DOUGLAS H, AND HIGGINS, RICHARD J; *ELECTRONIC STRUCTURE AND SPIN-RESOLVED K-SPACE SPECTROSCOPY IN METALS (DMR-7806271 A03);* 12 MONTHS $25,000

DONNELLY, RUSSELL J; *THE PHYSICS OF FLUIDS (DMR-7810782 A02);* 12 MONTHS $52,160

HIGGINS, RICHARD J; *ELECTRONIC PROPERTIES OF MATERIALS (DMR-7823011 A01);* 12 MONTHS $62,000

MC CLURE, JOEL W; *ELECTRONIC PROPERTIES OF CARBON FIBERS (DMR-7921545);* 12 MONTHS $24,868

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

AARONSON, HUBERT I; *NUCLEATION AT GRAIN BOUNDARIES (DMR-7917018 A01);* 14 MONTHS $90,932

CHUNG, DEBORAH D; *ACQUISITION OF X-RAY DIFFRACTION EQUIPMENT (DMR-8005380);* 12 MONTHS $50,000

CARNEGIE-MELLON UNIVERSITY

THOMPSON, ANTHONY W; *MECHANISMS OF HYDROGEN CRACKING IN STRUCTURAL MATERIALS (DMR-7800723 A02);* 12 MONTHS $49,921

MASSALSKI, THADEUS B; *PHASE TRANSITIONS AND INTERFACES DURING FORMATION AND DECOMPOSITION OF GLASSY METALS (DMR-7801581 A02);* 12 MONTHS $46,000

LAUGHLIN, DAVID E; *MECHANISMS OF ORDERING IN SOME NI-BASED BINARY ALLOYS (DMR-7805723 A02);* 12 MONTHS $46,196

FRIEDBERG, SIMEON A; *MAGNETIC INTERACTIONS IN SALTS OF THE TRANSITION METALS (DMR-7808651 A02);* 12 MONTHS $68,000

NAGLE, JOHN F; *SOLID STATE CHEMISTRY AND BIOPHYSICAL MATERIALS (DMR-7810226 A01);* 12 MONTHS $17,900

GRIFFITHS, ROBERT B, AND LANGER, JAMES S; *THERMODYNAMICS AND STATISTICAL MECHANICS OF PHASE TRANSITIONS (DMR-7820394 A01);* 12 MONTHS $65,400

SEKERKA, ROBERT F; *TOWARD A UNIFIED THEORY OF MORPHOLOGICAL STABILITY (DMR-7822462 A01);* 12 MONTHS $68,731

BERGER, LUC; *ELECTRICAL TRANSPORT IN FERROMAGNETIC METALS AND ALLOYS (DMR-7824679 A01);* 12 MONTHS $39,000

LANGER, JAMES S, AND WILLIAMS, JAMES C; *THE CENTER FOR THE JOINING OF MATERIALS (DMR-7824699 A02);* 12 MONTHS $610,000

SIGWORTH, G K, AND PHILBROOK, W O; *THERMODYNAMIC STUDY OF ALKALI OXIDES IN BLAST FURNACE SLAGS (DMR-7906323 A01);* 12 MONTHS $44,577

RAYNE, JOHN A; *TRANSPORT, THERMAL AND MAGNETIC PROPERTIES OF SOLIDS (DMR-7923355);* 12 MONTHS $39,000

CHUNG, DEBORAH D; *CALORIMETRIC STUDY OF GRAPHITE INTERCALATION COMPOUNDS (DMR-7926242);* 12 MONTHS $46,840

THOMPSON, ANTHONY W, AND BERNSTEIN, I M; *THIRD INTERNATIONAL CONFERENCE - EFFECT OF HYDROGEN ON BEHAVIOR OF MATERIALS, AUGUST 28-31, 1980, JACKSON, WYOMING (DMR-8000678);* 12 MONTHS $5,000

TIRRELL, DAVID; *COOPERATIVE EFFECTS IN REACTIONS OF SUBSTITUTED POLYETHERS AND POLYSULFIDES (DMR-8001629);* 24 MONTHS $51,900

WARREN, GARRY W; *EQUIPMENT FOR ELEMENTAL ANALYSES (DMR-8001662);* 12 MONTHS $13,000

KOU, SINDO; *RESEARCH INITIATION: HEAT FLOW AND SOLIDIFICATION DURING THE WELDING OF THIN ALUMINUM ALLOY PLATES (DMR-8007315);* 24 MONTHS $39,866

BERRY, GUY C, AND MARKOVITZ, HERSHEL; *RHEOLOGICAL PROPERTIES OF CONCENTRATED SOLUTIONS OF RODLIKE POLYMERS (DMR-8008226);* 15 MONTHS $62,500

LAFAYETTE COLLEGE

NOVACO, ANTHONY D; *INCOMMENSURATE STRUCTURES IN MONOLAYER AND OTHER LOWER DIMENSIONAL SYSTEMS* (DMR-8009551; 12 MONTHS $12,000

LEHIGH UNIVERSITY

WATKINS, GEORGE D; *ELECTRONIC AND VIBRONIC STRUCTURE OF INTRINSIC LATTICE DEFECTS IN COMPOUND SEMICONDUCTORS* (DMR-7711309 A02; 12 MONTHS $59,400

CHOU, Y T; *GRAIN BOUNDARY PINNING OF FLUX LINES IN NIOBIUM BICRYSTALS* (DMR-7915799 A01; 12 MONTHS $56,985

WILLIAMS, DAVID B; *SUPPRESSION OF THE DISCONTINUOUS REACTION* (DMR-7922978; 12 MONTHS $35,000

BUTLER, SIDNEY R; *INTERFACIAL SEGREGATION IN CERAMIC SYSTEMS* (DMR-8006057; 12 MONTHS $56,000

SPERLING, L H; *INTERPENETRATING POLYMER NETWORKS* (DMR-8015802; 12 MONTHS $40,000

PENNSYLVANIA STATE UNIVERSITY

ROY, RUSTUM; *SUPPORT OF THE MATERIALS RESEARCH LABORATORY* (DMR-7680620 A03; 6 MONTHS $39,000

FRANKL, DANIEL R; *PHYSICAL ADSORPTION QUANTUM STATES ON SOLID SURFACES* (DMR-7722961 A03; 12 MONTHS $43,000

SPEAR, KARL E; *CHEMICAL VAPOR DEPOSITION AND CRYSTAL GROWTH OF A15 SUPERCONDUCTING MATERIALS* (DMR-7810054 A02; 12 MONTHS $46,000

ALLCOCK, HARRY R; *INCLUSION OF MONOMER AND POLYMER MOLECULES IN TUNNEL-CLATHRATE SYSTEMS* (DMR-7815741 A01; 12 MONTHS $30,000

HARRISON, IAN R; *FURTHER STUDIES ON THE NATURE AND UTILIZATION OF CRYSTALLINE POLYMERS* (DMR-7825233 A01; 12 MONTHS $40,600

TSONG, TIEN T; *SINGLE ATOM INTERACTIONS AND SURFACE SEGREGATION OF DILUTE ALLOYS USING ATOM-PROBE AND FIELD ION MICROSCOPY* (DMR-7904862 A01*; 12 MONTHS $42,000

LANNIN, JEFFREY S; *RAMAN SCATTERING IN AMORPHOUS SOLIDS* (DMR-7908390 A01; $6,190

COLEMAN, MICHAEL M, AND PAINTER, PAUL C; *COMPUTER-ASSISTED VIBRATIONAL SPECTROSCOPY OF POLYMERS* (DMR-7910841 A01; 12 MONTHS $60,900

HENISCH, HEINZ K; *MINORITY CARRIER INJECTION INTO MATERIALS CONTAINING TRAPS* (DMR-7913178; 12 MONTHS $28,000

HARRISON, IAN R; *ACQUISITION OF X-RAY SCATTERING EQUIPMENT* (DMR-7924403; 12 MONTHS $19,400

VEDAM, KUPPUSWAM Y; *ACQUISITION OF DIAMOND HIGH PRESSURE CELL AND ACCESSORIES* (DMR-7925565; 12 MONTHS $15,000

MAYNARD, JULIAN D; *SUPERFLUID HELIUM FOUR RESEARCH* (DMR-7927155; 12 MONTHS $24,000

CHAN, MOSES H; *POSSIBLE QUANTUM CROSSOVER EFFECTS IN PURE FLUIDS NEAR THEIR CRITICAL POINTS* (DMR-7927279; 7 MONTHS $24,990

CHAN, MOSES H; *POSSIBLE QUANTUM CROSSOVER EFFECTS IN PURE FLUIDS NEAR THEIR CRITICAL POINTS* (DMR-7927279 A01; 12 MONTHS $38,000

MONKOWSKI, JOSEPH R; *RESEARCH INITIATION - GROWTH AND CHARACTERIZATION OF LARGE-GRAIN POLYCRYSTALLINE SILICON* (ECS-8006875*; 24 MONTHS $20,000

RUNT, JAMES P; *RESEARCH INITIATION - STUDIES ON THE NATURE OF THE CRYSTALLINITY AND COMPATIBILITY IN POLYMER BLENDS* (CPE-8008050*; 24 MONTHS $15,000

NEWNHAM, R E, AND CROSS, L E; *ELASTIC HYSTERESIS AND SWITCHING IN FERROIC CRYSTALS* (DMR-8010811; 12 MONTHS $55,000

PICKERING, HOWARD W; *ON PREFERENTIAL REMOVAL OF A COMPONENT FROM A BINARY ALLOY* (DMR-8010828; 15 MONTHS $72,600

TEMPLE UNIVERSITY

LABES, MORTIMER M; *REACTIONS IN LIQUID CRYSTALLINE PHASES* (DMR-7707811 A02; 12 MONTHS $28,900

LABES, MORTIMER M; *NOVEL LOW DIMENSIONAL CONDUCTORS* (DMR-7905979 A01; 12 MONTHS $50,600

MIHALISIN, TED W, AND CROW, JACK E; *EXPERIMENTAL STUDIES OF MIXED VALENCE, KONDO AND ASPHERICAL COULOMB SCATTERING IN RARE EARTH INTERMETALLICS* (DMR-7911153; 12 MONTHS $69,500

CROW, JACK E; *INTERNATIONAL CONFERENCE ON CRYSTALLINE ELECTRIC FIELD AND STRUCTURAL EFFECTS IN F-ELECTRON SYSTEMS, NOVEMBER 12-15, 1979, TEMPLE UNIVERSITY, PHILADELPHIA, PENNA.* (DMR-7919062; 6 MONTHS $4,000

LABES, MORTIMER M; *ACQUISITION OF A DIFFERENTIAL SCANNING CALORIMETER* (DMR-8006500; 12 MONTHS $18,400

UNIVERSITY OF PENNSYLVANIA

LAIRD, CAMPBELL; *THE PHYSICAL BASIS OF CUMULATIVE DAMAGE IN FATIGUE* (DMR-7713934 A02; 12 MONTHS $49,814

HEEGER, ALAN J; *NONEQUILIBRIUM SUPERCONDUCTIVITY AND INELASTIC ELECTRON TUNNELING SPECTROSCOPY* (DMR-7727934 A02; 12 MONTHS $47,000

HEEGER, ALAN J; *NONEQUILIBRIUM SUPERCONDUCTIVITY AND INELASTIC ELECTRON TUNNELING SPECTROSCOPY* (DMR-7727934 A04; $9,300

WORRELL, WAYNE L; *HIGH TEMPERATURE THERMODYNAMIC AND KINETIC INVESTIGATIONS OF THE FORMATION OF TRANSITION OF METAL-NOBLE METAL COMPOUNDS* (DMR-7905937 A02; 12 MONTHS $63,950

PLUMMER, WARD; *INELASTIC ELECTRON SCATTERING FROM SURFACE ADSORBATES* (DMR-7908590 A02; 12 MONTHS $88,000

WHITE, DAVID; *CLOSED-CYCLE HELIUM LIQUEFACTION SYSTEM FOR RESEARCH IN THE PHYSICAL AND BIOPHYSICAL SCIENCES* (DMR-7910299 A01; 6 MONTHS $10,000

POPE, DAVID P, AND VITEK, VACLAV; *EFFECTS OF DISLOCATION DISSOCIATION AND DISLOCATION CORE STRUCTURE ON PLASTIC FLOW IN PURE METALS AND ORDERED ALLOYS* (DMR-7906554 A01; 12 MONTHS $79,788

CALLEN, HERBERT B, HARRIS, A B, AND LUBENSKY, T; *STATISTICAL MECHANICS AND THEORY OF SOLIDS* (DMR-7910158; 12 MONTHS $82,500

HEEGER, ALAN J; *LABORATORY FOR RESEARCH ON THE STRUCTURE OF MATTER* (DMR-7923647; 12 MONTHS $2,800,000

FARRINGTON, GREGORY C; *ACQUISITION OF AN AUTOMATIC NETWORK ANALYZER* (DMR-8001497; 12 MONTHS $14,500

MC MAHON, CHARLES J; *THE EFFECTS OF IMPURITIES, INCLUDING HYDROGEN, ON INTERGRANULAR COHESION IN IRON-BASED ALLOYS* (DMR-8005881; 14 MONTHS $83,186

GRAHAM, WILLIAM R; *HIGH RESOLUTION MICROSCOPY OF SURFACE INTERACTIONS* (DMR-8009056; 12 MONTHS $53,000

GRIFFIN, JOHN A; *CRITICAL PHENOMENA IN RANDOM SYSTEMS* (DMR-8015351; 12 MONTHS $50,406

UNIVERSITY OF PITTSBURGH

MAGILL, JOSEPH H; *POLYMERIC SURFACES WITH SPECIAL EMPHASIS ON THE PROBLEM OF CHAIN FOLDING* (DMR-7722783 A02; 12 MONTHS $38,300

BUTERA, RICHARD A; *HEAT CAPACITY AND NEUTRON DIFFRACTION STUDIES OF RARE EARTHIRON INTERMETALLICS AND THEIR HYDRIDES* (CHE-7727252 A02*; 12 MONTHS $13,300

DEARDO, ANTHONY J; *PHYSICAL METALLURGY OF HOT DEFORMATION USING COPPER SINGLE CRYSTALS* (DMR-7800547 A01; 12 MONTHS $33,488

CHOYKE, W J, MC GRUER, JAMES N, SPITZNAGEL, J A, AND TOWNSEND, JOHN R; *MECHANISMS OF PORE, DISLOCATION AND PRECIPITATE NUCLEATION AND GROWTH DURING HIGH TEMPERATURE ION BOMBARDMENT* (DMR-7802598 A02; 12 MONTHS $238,206

LOWE, IRVING J; *TRANSIENT NUCLEAR MAGNETIC RESONANCE STUDY OF SOLIDS* (DMR-7815441 A02; 12 MONTHS $90,000

STEWART, G ALEC; *HEAT CAPACITY STUDIES OF ADSORBED HEAVY NOBLE GASES AND EXFOLIATED GRAPHITES* (DMR-7820603 A01; 12 MONTHS $43,900

JASNOW, DAVID M; *CRITICAL PHENOMENA AND PHASE TRANSITIONS* (DMR-8002416; 12 MONTHS $25,900

SOFFA, WILLIAM A; *THE STRENGTH AND FATIGUE OF PRECIPITATION HARDENED ALLOYS STRENGTHENED BY MODULATED STRUCTURES* (DMR-8005989; 12 MONTHS $56,682

RHODE ISLAND

BROWN UNIVERSITY

GURLAND, JOSEPH; *MICROSTRUCTURE AND FRACTURE TOUGHNESS OF CEMENTED CARBIDES* (DMR-7708838 A01; 12 MONTHS $35,000

QUINN, JOHN J; *THEORETICAL STUDY OF ELECTRON-ELECTRON INTERACTIONS AMONG THE CONDUCTION ELECTRONS IN SOLIDS* (DMR-7808556 A02; 12 MONTHS $39,000

GERRITSEN, HENDRIK J, AND NURMIKKO, ARTO V; *PICOSECOND SPECTROSCOPY APPLIED TO THE STUDY OF SEMICONDUCTOR INTERFACES* (DMR-7909701 A01; 12 MONTHS $58,000

TAUC, JAN; *OPTICAL STUDIES OF ELECTRONIC STATES, VIBRATIONS AND RELAXATION PROCESSES IN AMORPHOUS SYSTEMS* (DMR-7909819 A01; 12 MONTHS $73,200

STILES, PHILLIP J; *SURFACE QUANTIZATION AND ELECTRON-ELECTRON INTERACTIONS* (DMR-7913787; 12 MONTHS $81,000

HOUGHTON, ANTHONY; *SOLID STATE AND MANY-BODY THEORY* (DMR-7920321; 12 MONTHS $31,000

HELLER, GERALD S; *MATERIALS RESEARCH LABORATORY* (DMR-7923257; 12 MONTHS $1,750,000

WOLD, AARON; *PREPARATION AND PROPERTIES OF NEW TRANSITION METAL CHALCOGENIDES* (DMR-7923605; 12 MONTHS $45,500

ESTRUP, PEDER J; *SURFACE RECONSTRUCTION OF TRANSITION METALS* (DMR-7924396; 12 MONTHS $72,000

ASARO, ROBERT J; *FUNDAMENTAL STUDIES OF LOCALIZED PLASTIC DEFORMATION* (DMR-7926190; 12 MONTHS $32,948

BRAY, PHILIP J; *NUCLEAR MAGNETIC RESONANCE STUDIES OF THE STRUCTURE OF GLASSES* (DMR-8004488; 12 MONTHS $63,432

PELCOVITS, ROBERT A; *CRITICAL PHENOMENA IN THIN FILMS, AMORPHOUS SYSTEMS AND METALS* (DMR-8005879; 12 MONTHS $29,000

ELBAUM, CHARLES, AND MARIS, HUMPHREY J; *HIGH FREQUENCY ULTRASONIC WAVE AND PHONON PROPAGATION IN CONDENSED MATTER* (DMR-8011284*; 12 MONTHS $96,000

GORDON RESEARCH CONFERENCES

RUDMAN, REUBEN; *1980 GORDON RESEARCH CONFERENCE ON ORIENTATION DISORDER IN CRYSTALS: SANTA BARBARA, CALIFORNIA, JANUARY 14-18, 1980* (DMR-7913785; 6 MONTHS $2,000

CRUICKSHANK, ALEXANDER, AND HOLT, SMITH L; *GORDON CONFERENCE ON SOLID STATE CHEMISTRY; JUNE 30-JULY 4, 1980; WOLFSBORO, NEW HAMPSHIRE* (DMR-8004341; 6 MONTHS $4,000

UNIVERSITY OF RHODE ISLAND

BONNER, JILL C; *MOSTLY ONE DIMENSIONAL MAGNETISM (DMR-8010619)*; 12 MONTHS $23,000

SOUTH CAROLINA

CLEMSON UNIVERSITY

SKOVE, MALCOLM J; *THE EFFECT OF STRESS ON THE SUPERCONDUCTING TRANSITION TEMPERATURE OF METALS (DMR-7919001 A01)*; $8,000

SKOVE, MALCOLM J; *RESEARCH IN METALLIC WHISKERS (DMR-8006351)*; 12 MONTHS $47,700

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

FARACH, HORACIO A, AND POOLE, CHARLES P; *ACQUISITION OF INSTRUMENTATION FOR MAGNETIC RESONANCE (DMR-7908030)*; 12 MONTHS $25,900

TENNESSEE

OAK RIDGE NATIONAL LABORATORY

KOEHLER, WALLACE C, AND HENDRICKS, ROBERT W; *CONSTRUCTION AND OPERATION OF A NATIONAL USER-ORIENTED SMALL-ANGLE NEUTRON SCATTERING FACILITY (DMR-7724458 A03)*; 12 MONTHS $300,000

KOEHLER, WALLACE C, AND HENDRICKS, ROBERT W; *CONSTRUCTION AND OPERATION OF A NATIONAL USER-ORIENTED SMALL-ANGLE NEUTRON SCATTERING FACILITY (DMR-7724458 A04 *)*; $100,000

UNIVERSITY OF TENNESSEE AT KNOXVILLE

SPRUIELL, JOSEPH E; *IMPROVEMENT OF X-RAY DIFFRACTION FACILITIES (DMR-8003369)*; 18 MONTHS $70,000

VANDERBILT UNIVERSITY

HOAGLAND, RICHARD G; *AN ANALYSIS OF MICROSTRUCTURE AND TOUGHNESS OF CERAMICS (DMR-7920858)*; 12 MONTHS $39,778

WERT, JAMES J; *THE ROLE OF STRUCTURE IN THE WEAR PROCESS (DMR-8017301)*; 12 MONTHS $45,928

TEXAS

RICE UNIVERSITY

MCLELLAN, REX B; *THERMODYNAMIC AND KINETIC PROPERTIES OF BINARY AND TERNARY INTERSTITIAL SOLID SOLUTIONS (DMR-7801306 A02)*; 12 MONTHS $26,180

ESTLE, THOMAS L, AND DODDS, STANLEY A; *MUON SPIN ROTATION STUDIES OF DEFECTS, DIFFUSION AND TRAPPING IN SOLIDS (DMR-7909233)*; 12 MONTHS $60,600

TEXAS A & M UNIVERSITY

MARTELL, ARTHUR E; *ACQUISITION OF X-RAY POWDER DIFFRACTION EQUIPMENT (DMR-7913963)*; 12 MONTHS $22,000

FRY, EDWARD S, AND NAUGLE, DONALD G; *VELOCITY RESOLVED SCATTERING OF ATOMIC HYDROGEN FROM SURFACES (DMR-7921994)*; 24 MONTHS $73,900

KIRK, WILEY P; *MILLIKELVIN STUDIES OF SOLID HELIUM-3 MAGNETIC EFFECTS AND SUPERCONDUCTING AMORPHOUS TRANSITION METALS (DMR-8011584)*; 12 MONTHS $55,000

UNIV OF TEXAS AT AUSTIN

KLEINMAN, LEONARD; *ELECTRONIC STATES AT SURFACES OF SOLIDS (DMR-7731559 A02)*; 12 MONTHS $48,800

WEBBER, STEPHEN E; *ENERGY-TRANSPORT PROCESSES IN POLYMERS (DMR-7902600 A01)*; $5,800

DE WETTE, FREDERICK W; *CALCULATIONS OF SURFACE PROPERTIES OF CRYSTALS (DMR-7810309 A01)*; 12 MONTHS $31,500

THOMPSON, JAMES C; *THE METAL-NONMETAL TRANSITION IN LIQUID MIXTURES (DMR-7921744 A01)*; 12 MONTHS $42,500

GAVENDA, J D; *ANOMALOUS SOUND PROPAGATION IN METALS (DMR-7925392 A01)*; 12 MONTHS $35,700

SWINNEY, HARRY L; *INSTABILITIES, TURBULENCE, AND CRITICAL PHENOMENA IN FLUID FLOWS (CME-7909585 *)*; 12 MONTHS $30,000

ERSKINE, JAMES L; *EXPERIMENTAL STUDIES OF INTRINSIC SURFACE ELECTRONIC PROPERTIES (DMR-7923629)*; 12 MONTHS $37,600

PAUL, DONALD R; *GAS SORPTION AND TRANSPORT IN GLASSY POLYMERS (DMR-8001665)*; 12 MONTHS $50,400

STEINFINK, HUGO; *RELATION BETWEEN STRUCTURE AND PHYSICAL PROPERTIES IN MIXED VALENCE TRANSITION METAL CHALCOGENIDES (DMR-8005140)*; 12 MONTHS $47,700

WEBBER, STEPHEN E; *ENERGY-TRANSPORT PROCESSES IN POLYMERS (DMR-8013709)*; 14 MONTHS $54,700

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

CHU, CHING-WU; *HIGH PRESSURE PHASES OF COPPER CHLORIDE AND HIGH TRANSITION TEMPERATURE SUPERCONDUCTORS (DMR-7908486 A01)*; 12 MONTHS $69,000

MC CAULEY, JOSEPH L; *VORTEX CREATION AND ANNIHILATION IN THIN HELIUM-FOUR FILMS (DMR-8003421)*; 12 MONTHS $10,000

RABALAIS, J WAYNE; *CHEMICAL REACTIONS OF ACTIVE ION BEAMS WITH SURFACES (DMR-8007036)*; 8 MONTHS $36,000

UTAH

UNIVERSITY OF UTAH

AILION, DAVID C; *MAGNETIC RESONANCE STUDY OF ATOMIC AND MOLECULAR MOTIONS (DMR-7818908 A02)*; 12 MONTHS $42,290

WANG, C H; *RAYLEIGH-BRILLOUIN LIGHT SCATTERING OF SEGMENTAL MOTION AND STRUCTURAL RELAXATION OF POLYMER LIQUIDS AND SOLIDS (DMR-7912457 A01)*; 12 MONTHS $69,600

VIRKAR, ANIL V; *FRACTURE MECHANISMS IN BRITTLE MATERIALS (DMR-7912668 A01)*; 12 MONTHS $48,470

ROSENBERGER, FRANZ; *CRYSTAL GROWTH FROM VAPORS (DMR-7913183 A01 *)*; 12 MONTHS $42,313

SYMKO, OREST G; *PROPERTIES OF DILUTE MAGNETIC ALLOYS AT VERY LOW TEMPERATURES AND NUCLEAR COOLING (DMR-7916243 *)*; 12 MONTHS $45,600

BYRNE, J GERALD; *FATIGUE INITIATION STUDY IN THERMOMECHANICALLY TREATED STEELS (DMR-7918910 A01)*; 12 MONTHS $37,811

DEVRIES, K L; *MOLECULAR AND MACROSCOPIC INVESTIGATION OF FRACTURE IN POLYMERS (DMR-7925390)*; 12 MONTHS $55,900

LYMAN, DONALD J; *POLYMERIC IMPLANT MATERIALS (DMR-8005499)*; 12 MONTHS $85,300

VIRGINIA

COLLEGE OF WILLIAM AND MARY

KOSSLER, W J, AND PETZINGER, KENNETH G; *MUON PRECESSION IN SOLIDS (DMR-8007059)*; 12 MONTHS $55,000

OLD DOMINION UNIVERSITY

OULTON, DAVID B; *A THREE-DIMENSIONAL NONLINEAR STABILITY ANALYSIS OF THE SOLIDIFICATION OF A DILUTE BINARY ALLOY (DMR-7900950 A01)*; 12 MONTHS $38,498

UNIVERSITY OF VIRGINIA

RUVALDS, JOHN; *INTERACTING EXCITATIONS IN CONDENSED MATTER (DMR-7713167 A03)*; 6 MONTHS $31,500

COLEMAN, ROBERT V; *ELECTRONIC PROPERTIES OF METALS AND ALLOYS IN HIGH MAGNETIC FIELDS (DMR-7802553 A02)*; 12 MONTHS $47,300

JOHNSON, ROBERT A; *DEFECT INTERACTIONS IN METALS (DMR-7807539 A02)*; 12 MONTHS $44,707

SCHNATTERLY, STEPHEN E; *INELASTIC ELECTRON SCATTERING AND SOFT X-RAY SPECTROSCOPY (DMR-7816753 A03)*; 12 MONTHS $107,000

BRYAN, ROBERT F; *CRYSTAL STRUCTURE AND LIQUID CRYSTALLINITY (DMR-7819884 A01)*; 12 MONTHS $42,700

BRYAN, ROBERT F; *CRYSTAL STRUCTURE AND LIQUID CRYSTALLINITY (DMR-7819884 A02)*; $17,800

DEAVER, BASCOM S; *EXPERIMENTS USING WEAKLY LINKED SUPERCONDUCTORS (DMR-7825791 A01)*; 12 MONTHS $47,100

KALLNE, ELISABETH; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: TRANSMISSION GRATINGS AND OPTICAL CONSTANTS IN THE VACUUM ULTRAVIOLET AND X-RAY REGION (DMR-7933144 *)*; 3 MONTHS $17,000

VIRGINIA COMMONWEALTH UNIVERSITY

SATTERTHWAITE, CAMERON B; *SUPERCONDUCTIVITY IN METAL-HYDROGEN SYSTEMS (DMR-8009303)*; 12 MONTHS $23,500

VIRGINIA POLYTECHNIC INSTITUTE

HASSELMAN, D P, AND HELLER, ROBERT A; *INTERNATIONAL CONFERENCE ON THERMAL STRESSES IN MATERIALS AND STRUCTURES FOR SEVERE THERMAL ENVIRONMENTS, BLACKSBURG, VIRGINIA, MARCH 19 - 20, 1980 (CME-7918424 *)*; 9 MONTHS $1,500

HOUSKA, C R; *INFLUENCE OF SPUTTERING PARAMETERS ON FILM STRUCTURE (DMR-8000933)*; 12 MONTHS $42,328

WASHINGTON

BOEING ENGINEERING AND CONSTRUCTION

LYTLE, FARREL W; *ATOMIC AND ELECTRONIC STRUCTURE OF GLASS BY X-RAY TECHNIQUES (DMR-8013706)*; 12 MONTHS $80,377

UNIVERSITY OF WASHINGTON

RIEDEL, EBERHARD K; *TRICRITICAL PHENOMENA AND STATISTICAL MECHANICS (DMR-7712676 AG2)*; 12 MONTHS $60,000

STERN, EDWARD A; *EXTENDED X-RAY ABSORPTION FINE STRUCTURE (DMR-7722955 A02)*; 12 MONTHS $91,000

DASH, JAY G, AND VILCHES, OSCAR E; *MONOLAYER PHYSICS (DMR-7821697 A01)*; 12 MONTHS $127,000

GOUTERMAN, MARTIN; *PHOTORELAXATION AND PHOTOVOLTAIC PROPERTIES OF PORPHYRIN FILMS (DMR-7923958 A01)*; 12 MONTHS $83,000

INGALLS, ROBERT L; *GAMMA-RAY AND X-RAY SPECTROSCOPY OF SOLIDS UNDER PRESSURE (DMR-7824995 A01)*; 12 MONTHS $58,000

REHR, JOHN J; *TOPICS IN THE THEORY OF SURFACES AND APERIODIC MATERIALS (DMR-7907238 A01)*; 12 MONTHS $23,850

SCHICK, MICHAEL; *APPLICATIONS OF THE RENORMALIZATION GROUP (DMR-7920785)*; 12 MONTHS $50,000

SCHICK, MICHAEL, RIEDEL, EBERHARD K, AND REHR, JOHN J; *SUMMER TOPICAL RESEARCH INSTITUTE IN THEORETICAL PHYSICS; UNIVERSITY OF WASHINGTON; JULY 14 - AUGUST 8, 1980 (DMR-8006328)*; 10 MONTHS $12,000

FAIN, SAMUEL C; *STRUCTURE OF PHYSICALLY ADSORBED LAYERS (DMR-8006334)*; 12 MONTHS $59,500

THOULESS, DAVID J; *THEORETICAL STUDIES OF SPIN GLASSES, ELECTRONS IN DISORDERED SYSTEMS, AND TWO-DIMENSIONAL PHASE TRANSITION (DMR-8024855)*; 12 MONTHS $21,000

WASHINGTON STATE UNIVERSITY

FARMER, BARRY L; *ENERGETICS OF POLYMER CRYSTALLIZATION (DMR-7720904 A01)*; 24 MONTHS $60,000

CROSBY, GLENN A; *SYNTHESIS AND OPTICAL STUDIES OF CLUSTERS AND SOLIDS EXHIBITING COOPERATIVE PHENOMENA (DMR-7810068 A02)*; 12 MONTHS $52,500

HIPPS, KERRY W; *INELASTIC ELECTRON TUNNELING SPECTROSCOPY APPLIED TO TRANSITION METAL COMPLEXES (DMR-7920951 A02)*; 12 MONTHS $39,700

DUVALL, GEORGE E; *ROLE OF DISLOCATIONS IN DYNAMIC FAILURE OF LIF UNDER SHOCK CONDITIONS (DMR-7906122 A01*)*; 12 MONTHS $44,000

BRAUNLICH, PETER F, AND SCHMID, ANSGAR W; *PHOTOCHEMICAL DECOMPOSITION OF SOLID SURFACES (DMR-7907030 A01)*; 12 MONTHS $23,000

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

SEEHRA, MOHINDAR S; *MAGNETIC AND TRANSPORT PROPERTIES OF SOLIDS (DMR-7804397 A02)*; 12 MONTHS $26,800

COOPER, BERNARD R; *THEORY OF ANISOTROPIC MAGNETIC PROPERTIES AND ASSOCIATED LATTICE BEHAVIOR IN ACTINIDE AND RARE EARTH MATERIALS (DMR-7907069 A01)*; 12 MONTHS $37,500

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

ROWE, EDNOR M; *EXPANSION OF THE WISCONSIN SYNCHROTRON RADIATION CENTER (DMR-7708657 A03)*; 12 MONTHS $370,000

ROWE, EDNOR M; *EXPANSION OF THE WISCONSIN SYNCHROTRON RADIATION CENTER (DMR-7708657 A04)*; $230,000

ROWE, EDNOR M; *OPERATIONS OF THE WISCONSIN SYNCHROTRON RADIATION CENTER (DMR-7721888 A02)*; 12 MONTHS $727,900

COOPER, STUART L; *INTERMOLECULAR BONDING AND MICROPHASE SEPARATION IN POLYURETHANE BLOCK POLYMERS (DMR-7811662 A02)*; 12 MONTHS $50,800

WEBB, M B; *SURFACE STRUCTURE, LATTICE DYNAMICS AND ADATOM INTERACTIONS (DMR-7816450 A01)*; 12 MONTHS $42,500

FERRY, JOHN D; *MOLECULAR MOTIONS IN POLYMER SOLUTIONS, GELS, AND NETWORKS (DMR-7816954 A01)*; 12 MONTHS $46,800

YEN, WILLIAM M; *SPECTROSCOPY OF MAGNETICALLY ORDERED MATERIALS (DMR-7820070 A01)*; 12 MONTHS $70,000

WEAVER, JOHN H; *PHOTOELECTRON SPECTROSCOPY STUDIES OF TRANSITION METAL CARBIDES USING SYNCHROTRON RADIATION (DMR-7821080 A01)*; 12 MONTHS $46,100

MARGARITONDO, GIORGIO; *MICROSCOPIC PROPERTIES OF SEMICONDUCTOR-SEMICONDUCTOR INTERFACES (DMR-7822205 A01)*; 12 MONTHS $40,000

LAGALLY, MAX G; *CRYSTALLOGRAPHIC DETERMINATION OF LIMITATIONS TO ORDER IN SURFACES AND OVERLAYERS (DMR-7825754 A01*)*; 12 MONTHS $51,300

LIN, CHUN C; *BAND STRUCTURE OF SOLIDS AND POINT DEFECTS IN CRYSTALS (DMR-7827575 A01)*; 12 MONTHS $46,000

HUBER, DAVID L; *THEORETICAL STUDIES OF THE MAGNETIC PROPERTIES OF SOLIDS (DMR-7904154 A01)*; 12 MONTHS $36,400

WRIGHT, JOHN C; *SOLID STATE CHEMISTRY OF DEFECT SITES IN FLUORITE CRYSTALS (DMR-7906788 A01)*; 12 MONTHS $33,400

YU, HYUK; *SMALL-ANGLE NEUTRON SCATTERING OF RUBBER NETWORKS (DMR-7908652 A01)*; 12 MONTHS $40,000

PEREPEZKO, JOHN H; *NUCLEATION KINETICS AND THERMODYNAMICS OF THE LIQUID-SOLID TRANSFORMATION (DMR-7915802 A01)*; 14 MONTHS $68,545

BRUCH, LUDWIG W; *THEORY OF PHYSICAL ADSORPTION (DMR-7920400)*; 12 MONTHS $25,300

TAYLOR, JAMES W, MARGARITONDO, GIORGIO, AND FISHER, GALEH B; *GAS PHASE AND ULTRAHIGH VACUUM SPECTROSCOPY ON A WINDOWLESS BEAM LINE (DMR-7924555*)*; 12 MONTHS $114,190

SCHRAG, JOHN L; *MOTIONS AND CONFORMATIONAL PROPERTIES OF MACROMOLECULES IN SOLUTION (DMR-7925020*)*; 12 MONTHS $71,500

COOPER, STUART L, AND YU, HYUK; *SMALL-ANGLE X-RAY SCATTERING FACILITY (DMR-8002679*)*; 12 MONTHS $75,000

UNIVERSITY OF WISCONSIN-MILWAUKEE

TONG, S Y; *SURFACE CRYSTALLOGRAPHY AND ELECTRONIC STRUCTURE OF METALS AND SEMICONDUCTORS (DMR-7728112 A02)*; 12 MONTHS $50,000

CHANG, Y AUSTIN; *THERMODYNAMICS AND PHASE RELATIONSHIPS OF BINARY AND TERNARY METAL-SULFUR SYSTEMS (DMR-7904066 A02)*; 12 MONTHS $68,530

CHANG, Y AUSTIN; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: PHASE INVESTIGATION OF LEAD-TIN-CALCIUM ALLOYS (DMR-7908333*)*; 12 MONTHS $11,642

BURCK, LARRY H; *SPECIALIZED RESEARCH EQUIPMENT: ENERGY DISPERSIVE X-RAY SPECTROMETER (DMR-8009221)*; 12 MONTHS $28,027

GREENLER, ROBERT; *ADSORPTION AND REACTIONS ON METAL SURFACES (DMR-8010710)*; 12 MONTHS $78,912

COMPUTER SCIENCE

ALASKA

UNIVERSITY OF ALASKA-FAIRBANKS

HEAD, THOMAS J; *CONTEXT RESTRICTED GENERATION SYSTEMS AND THE ASSOCIATED FORM THEORIES (MCS-8003348)*; 24 MONTHS $42,896

ARIZONA

UNIVERSITY OF ARIZONA

GRISWOLD, RALPH E; *FORMALIZING AND AUTOMATING THE IMPLEMENTATION OF PORTABLE SOFTWARE (MCS-7802545 A01)*; 24 MONTHS $166,216

SHANNO, DAVID F; *NUMERICAL METHODS FOR NONLINEAR OPTIMIZATION WITH MANY VARIABLES (MCS-7922914)*; 24 MONTHS $59,365

ANDREWS, GREGORY R; *SYNCHRONIZING RESOURCES: AN APPROACH TO PROGRAMMING CONCURRENT SYSTEMS (MCS-8001643)*; 24 MONTHS $75,067

DOWNEY, P J; *STOCHASTIC SCHEDULING: ALGORITHMS AND COMPLEXITY (MCS-8004678*)*; 24 MONTHS $31,812

DOBKIN, DAVID P; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8006263*)*; 12 MONTHS $52,940

NUNAMAKER, JAY F, LOOMIS, MARY E, ALLEN, FRANK W, DOWNS, DEBORAH, AND KONSYNSKI, BENN R; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8006317*)*; 12 MONTHS $133,809

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

MEAD, CARVER A; *DESIGN OF SILICON STRUCTURES (MCS-7826367 A01*)*; 12 MONTHS $40,160

MILNE, GEORGE J; *DESIGN AND DEVELOPMENT OF A CONCURRENT PROGRAMMING LANGUAGE BASED ON THE SYCHRONIZED BEHAVIOUR ALGEBRA MODEL (MCS-8015905)*; 12 MONTHS $6,226

INSTITUTE FOR THE FUTURE-INSTITUTE FOR THE FUTURE-CALIFORNIA

AMARA, ROY, AND LIPINSKI, HUBERT; *INTERACTIVE GROUP MODELING: A NEW METHODOLOGY FOR COMPUTERBASED SCIENTIFIC COMMUNICATION (MCS-7701424 A03)*; 12 MONTHS $175,900

RAND CORPORATION

WATERMAN, D A; *WORKSHOP ON EXPERT SYSTEMS, LOS ANGELES, CALIFORNIA, JUNE 1980 (MCS-7926532*)*; 12 MONTHS $12,984

SOCIETY FOR COMPUTER SIMULATION (SCS)

MCLEOD, JOHN; *CONFERENCE AND WORKSHOP ON MODEL ACCEPTANCE TO BE HELD MAY 13-15, 1981, CANNON HOUSE OFFICE BUILDING IN WASHINGTON, DC (MCS-8020451)*; 12 MONTHS $9,116

SRI INTERNATIONAL

WALDINGER, RICHARD J; *THE AUTOMATIC SYNTHESIS OF COMPUTER PROGRAMS (MCS-7802591 A02)*; 12 MONTHS $89,810

BARROW, HARRY G, AND TENENBAUM, JAY M; *RECOVERING INTRINSIC SCENE CHARACTERISTICS FROM IMAGES (MCS-7901830 A01)*; 12 MONTHS $101,553

BOYER, ROBERT S, AND MOORE, J STROTHE R; *MECHANIZING THE MATHEMATICS OF COMPUTER PROGRAM ANALYSIS (MCS-7904081 A01)*; 12 MONTHS $148,536

STANFORD UNIVERSITY

KNUTH, DONALD E; *ANALYSIS OF ALGORITHMS (MCS-7723738 A02)*; 12 MONTHS $167,712

MC CARTHY, JOHN; *BASIC RESEARCH IN ARTIFICIAL INTELLIGENCE (MCS-7900524 A02)*; 12 MONTHS $110,238

DUNN, DONALD A; *ECONOMICS OF COMPUTER COMMUNICATION NETWORKS (MCS-7802272 A02*)*; 12 MONTHS $82,458

GOLUB, GENE H, AND OLIGER, JOSEPH; *NUMERICAL LINEAR ALGEBRA (MCS-7811985 A01)*; 12 MONTHS $71,797

ULLMAN, JEFFREY D; *EFFICIENT COMBINATORIAL ALGORITHMS AND THEIR APPLICATIONS (MCS-7826858 A01)*; 12 MONTHS $30,616

BUCHANAN, BRUCE G; *KNOWLEDGE-BASED CONSULTATION SYSTEMS (MCS-7903753 A01)*; 12 MONTHS $64,130

MCCLUSKEY, EDWARD J; *RELIABLE COMPUTERS (MCS-7904864 A01)*; 12 MONTHS $76,856

MC CARTHY, JOHN; *THE MECHANIZATION OF FORMAL REASONING (MCS-7905998 A01)*; 12 MONTHS $96,013

IGLEHART, DONALD L; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: DISCRETE EVENT METHODS FOR COMPUTER SYSTEM SIMULATION (MCS-7909139 A03*)*; 12 MONTHS $50,296

MANNA, ZOHAR; *A DEDUCTIVE APPROACH TO PROGRAM SYNTHESIS (MCS-7909495)*; 12 MONTHS $63,814

HELLMAN, MARTIN E; *DATA SECURITY (ECS-7916161*)*; 24 MONTHS $17,632

KNUTH, DONALD E; *THEORETICAL BASIS FOR THE DEVELOPMENT OF DOCUMENT PREPARATION SYSTEMS (IST-7921977*)*; 24 MONTHS $133,000

FEIGENBAUM, EDWARD A; *THE AUTOMATION OF SCIENTIFIC INFERENCE: HEURISTIC COMPUTING APPLIED TO PROTEIN CRYSTALLOGRAPHY (MCS-7923666)*; 24 MONTHS $54,469

DANTZIG, GEORGE B, COTTLE, RICHARD W, AND MURRAY, W; *COMPUTER OPTIMIZATION OF COMPLEX SYSTEMS* (MCS-7904000)+ 12 MONTHS $105,484

GOODMAN, JOSEPH W, AND MACOVSKI, ALBERT; *MULTIPLEXED HOLOGRAPHIC RECONSTRUCTION METHODS FOR THREEDIMENSIONAL STRUCTURES* (ECS-7924312)*+ 12 MONTHS $110,094

MANNA, ZOHAR; *THE MODAL LOGIC OF PROGRAMS* (MCS-8006430)+ 12 MONTHS $17,296

SUPPES, PATRICK; *INTERACTIVE THEOREM PROVING* (MCS-8011973)+ 12 MONTHS $85,295

CHOWNING, JOHN M; *INTELLIGENT SYSTEMS FOR THE ANALYSIS OF DIGITIZED ACOUSTIC SIGNALS* (MCS-8014707)+ 12 MONTHS $11,979

ULLMAN, JEFFREY D; *DATABASE THEORY* (MCS-8012907)+ 12 MONTHS $49,987

SYSTEMS CONTROL INC

GREEN, C CORDELL; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: INTELLIGENT SYSTEMS FOR THE ANALYSIS OF DIGITIZED ACOUSTIC SIGNALS* (MCS-7923312)*+ 12 MONTHS $13,766

UNIVERSITY OF CALIFORNIA, BERKELEY

KARP, RICHARD M; *RESEARCH IN ALGORITHMIC COMPLEXITY* (MCS-7709906 A01)+ $29,835

SMITH, ALAN J; *AUTOMATIC FILE SYSTEM DESIGN AND OPTIMIZATION* (MCS-7728429 A01)+ 12 MONTHS $41,600

BLUM, MANUEL; *COMPLEXITY THEORY AND THE STUDY OF AUTOMATA IN TWO AND THREE DIMENSIONAL SPACE* (MCS-7910767 A01)+ 12 MONTHS $39,900

ZADEH, LOTFI A; *A THEORY OF APPROXIMATE REASONING* (MCS-7906543 A01*)+ 12 MONTHS $15,500

GRAHAM, SUSAN L; *PROGRAMMING LANGUAGE IMPLEMENTATION* (MCS-8005144)+ 12 MONTHS $62,975

ROWE, LAWRENCE A; *END-USER DATA BASE APPLICATION DEVELOPMENT* (MCS-8006329)+ 12 MONTHS $50,000

POWELL, MICHAEL L; *MULTI-MICROCOMPUTER OPERATING SYSTEMS* (MCS-8010636)+ 24 MONTHS $42,000

HARRISON, MICHAEL A; *CRYPTOGRAPHY AND THEORY OF COMPUTATION* (MCS-8012716)+ 12 MONTHS $44,350

UNIVERSITY OF CALIFORNIA, IRVINE

KLING, ROB; *CONCEPTS AND ISSUES IN INSTRUMENTAL COMPUTER USE* (MCS-7720831 A01)+ 12 MONTHS $99,073

DANZIGER, JAMES N, AND KRAEMER, KENNETH L; *A CONTINGENCY ANALYSIS OF COMPUTER IMPACTS IN PUBLIC ORGANIZATIONS* (MCS-7905521)+ 12 MONTHS $61,789

UNIVERSITY OF CALIFORNIA, LOS ANGELES

CARLYLE, JACK W, GREIBACH, S A, AND FRIEDMAN, EMILY P; *THEORY OF MACHINES, GRAMMARS, AND COMPUTATIONS* (MCS-7804725 A02)+ 12 MONTHS $64,314

PEARL, JUDEA; *AN INVESTIGATION OF THE ROLE OF REPRESENTATIONS IN PROBLEM SOLVING* (MCS-7807469 A02)+ 12 MONTHS $56,958

KLINGER, ALLEN; *COMBINING NUMERIC AND GRAPHIC DATA* (MCS-7816754 A01)+ 12 MONTHS $59,448

STONE, CHARLES J; *STATISTICS AND INFINITE PARTICLE SYSTEMS* (MCS-8002732)+ 12 MONTHS $13,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

WILLIAMSON, STANLEY G, AND BENDER, EDWARD A; *COMBINATORIAL ALGORITHMS AND ASYMPTOTICS* (MCS-7917060*)+ 24 MONTHS $21,500

SAVITCH, WALTER J; *COMPLEXITY OF COMPUTATIONS* (MCS-8001963)+ 24 MONTHS $66,864

HU, TE CHIANG; *THEORY AND COMPUTATION OF DISCRETE OPTIMIZATION* (MCS-8003502)+ 12 MONTHS $39,424

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

MILLER, WEBB C; *SOFTWARE FOR ROUNDOFF ANALYSIS* (MCS-7912293 A01)+ 9 MONTHS $8,024

MILLER, WEBB C; *TOOLPACK AT THE UNIVERSITY OF CALIFORNIA, SANTA BARBARA* (MCS-7908441)+ 12 MONTHS $55,000

BRUNO, JOHN L; *STOCHASTIC SCHEDULING: ALGORITHMS AND COMPLEXITY* (MCS-8004257*)+ 24 MONTHS $41,137

BOOK, RONALD V; *COMPUTATIONAL COMPLEXITY AND FORMAL LANGUAGES* (MCS-8011979)+ 12 MONTHS $30,397

UNIVERSITY OF SOUTHERN CALIFORNIA

HOROWITZ, ELLIS; *IMPROVED SOFTWARE RELIABILITY VIA AXIOMATIC SPECIFICATION OF DATA STRUCTURES II* (MCS-7901798 A04)+ 12 MONTHS $67,542

BALZER, ROBERT M, AND WILE, DAVID; *SUPERVISORY CONTROL OF TRANSFORMATIONAL IMPLEMENTATION SYSTEMS* (MCS-7918792*)+ 12 MONTHS $201,054

GINSBURG, SEYMOUR; *THE MATHEMATICAL FOUNDATIONS FOR RELATIONAL DATA BASES* (MCS-7925004)+ 24 MONTHS $44,000

PROSKUROWSKI, WLODEK; *FAST NUMERICAL METHODS FOR SOLVING THE HELMOLTZ EQUATION AND RELATED PROBLEMS* (MCS-8003332)+ 24 MONTHS $17,900

YAP, CHEE-KENG; *NEW PARADIGMS FOR COMPUTATIONAL COMPLEXITY AND RELATED TOPICS* (MCS-8005449)+ 24 MONTHS $25,453

COLORADO

COLORADO STATE UNIVERSITY

GRIT, DALE H; *THE DESIGN AND IMPLEMENTATION OF AN EXPRESSION-ORIENTED SYSTEM PROGRAMMING LANGUAGE* (MCS-8005894)+ 24 MONTHS $46,924

PAGE, RICTOR L; *INFLUENCE OF SYSTEM COMPONENTS ON THE PERFORMANCE OF MULTIPROCESSOR COMPUTER SYSTEMS* (MCS-8005725)+ 24 MONTHS $140,723

PRENTER, P M; *NUMERICAL ITERATIVE AND NONITERATIVE FILTERS FOR ILL-POSED AND NOISY EQUATIONS ARISING FROM LINEAR AND NONLINEAR INVERSION PROBLEMS* (MCS-8007054)+ 12 MONTHS $33,552

MCCORMICK, STEPHEN F, AND TAYLOR, GERALD D; *A NUMERICAL INVESTIGATION OF SURFACE FITTING AND MESH REFINEMENT TECHNIQUES* (MCS-8017256)+ 12 MONTHS $44,695

UNIVERSITY OF COLORADO AT BOULDER

OSTERWEIL, LEON; *TOOLPACK: UNIVERSITY OF COLORADO PARTICIPATION* (MCS-8000917)+ 12 MONTHS $83,220

ZEIGER, H PAUL, AND FOSDICK, LLOYD D; *COMPUTER SCIENCE RESEARCH EQUIPMENT* (MCS-8006501*)+ 12 MONTHS $176,800

CONNECTICUT

UNIVERSITY OF CONNECTICUT

WHITE, JOHN R; *COMPUTER ASSISTED SOFTWARE EVOLUTION* (MCS-8005113)+ 24 MONTHS $69,473

BOOTH, TAYLOR L, AND CULLINGFORD, RICHARD E; *COMPUTER SCIENCE RESEARCH EQUIPMENT* (MCS-8006831)+ 12 MONTHS $100,000

BALKOVICH, EDWARD; *THE PERFORMANCE OF DECENTRALIZED SOFTWARE* (MCS-8007469)+ 12 MONTHS $36,492

YALE UNIVERSITY

BARSTOW, DAVID R; *PROGRAMMING KNOWLEDGE FOR GRAPH ALGORITHMS* (MCS-7908917 A01)+ 6 MONTHS $5,732

ANGLUIN, DANA C; *ALGORITHMS FOR INDUCTIVE INFERENCE* (MCS-8002447)+ 24 MONTHS $50,037

PERLIS, ALAN J; *WORKSHOP ON PROGRAMMING ENVIRONMENTS, RIDGEFIELD, CONNECTICUT, JUNE, 1980* (ECS-8018477*)+ 6 MONTHS $5,000

MC DERMOTT, DREW; *THE REPRESENTATION OF SPATIAL INFORMATION FOR PROBLEM SOLVING AND UNDERSTANDING* (MCS-8011710)+ 12 MONTHS $41,574

DISTRICT OF COLUMBIA

GEORGE WASHINGTON UNIVERSITY

HOFFMAN, LANCE J; *NEW MODELS AND METRICS IN COMPUTER SECURITY* (MCS-7724185 A02)+ 12 MONTHS $42,650

FLORIDA

FLORIDA STATE UNIVERSITY

BAKER, THEODORE P; *STUDIES IN COMPUTATIONAL COMPLEXITY* (MCS-7924583)+ 12 MONTHS $14,027

UNIVERSITY OF CENTRAL FLORIDA

MUKHOPADHYAY, AMAR; *STRING PROCESSING COMPUTER ARCHITECTURE* (MCS-8005096)+ 24 MONTHS $111,760

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

SU, STANLEY Y; *CONVERSION OF APPLICATION PROGRAMS IN THE DATA BASE MANAGEMENT SYSTEMS ENVIRONMENT* (MCS-7838761)+ 24 MONTHS $100,247

UNIVERSITY OF MIAMI

GOODMAN, RICHARD; *COMPUTER ARITHMETIC AND APPLICATIONS* (MCS-8004131*)+ 24 MONTHS $32,546

UNIVERSITY OF SOUTH FLORIDA

KIM, KWANG H; *AUTOMATIC ERROR RECOVERY IN DISTRIBUTED COMPUTING SYSTEMS* (MCS-8012906*)+ 17 MONTHS $39,466

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

LYNCH, NANCY; *COMPLEXITY AND COMPUTABILITY FOR DISTRIBUTED DATA BASES* (MCS-7914370)+ 24 MONTHS $55,139

HAWAII

UNIVERSITY OF HAWAII-MANOA

STOUTEMYER, DAVID R; *SCIENTIFIC APPLICATIONS OF COMPUTER ALGEBRA* (MCS-7908250*)+ 24 MONTHS $79,540

MUNCHMEYER, FREDERICK C; *GAUSS CONTOUR ABERRATIONS ON A PATCHWISE POLYNOMIAL SURFACE* (MCS-8003279)+ 24 MONTHS $59,259

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

CHRISTOPHER, THOMAS W, AND EVENS, MARTHA W; *DISTRIBUTED COMPILERS FOR DISTRIBUTED SYSTEMS* (MCS-8004114)+ 12 MONTHS $55,359

NORTHERN ILLINOIS UNIVERSITY

OVERBEEK, ROSS A; *TOPICS IN AUTOMATED THEOREM PROVING* (MCS-7903570 A01)+ 12 MONTHS $39,312

NORTHWESTERN UNIVERSITY

SUDBOROUGH, IVAN H; *APPLICATIONS OF AUTOMATA THEORY TO COMPUTATIONAL COMPLEXITY* (MCS-7900050 A01) 12 MONTHS $61,504

HERSHCHEN, LAWRENCE J; *AUTOMATED THEOREM PROVING* (MCS-7911552) 12 MONTHS $46,562

LEE, DONTSAI; *CONCRETE COMPUTATIONAL COMPLEXITY* (MCS-7910617) 24 MONTHS $30,943

BARESSI, RENZO H; *PROBABILISTIC ERROR ANALYSIS FOR COMPUTATIONAL RELATIVE DIFFERENCE AND FLOATING POINT COMPUTERS* (MCS-7810158*) 36 MONTHS $95,865

SOUTHERN ILLINOIS RESEARCH INSTITUTE

FETTER, WILLIAM A; *GRAPHICAL DISPLAY FOR COMPUTER MODEL OUTPUT* (MCS-7710918 A01) 12 MONTHS $90,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

PLESS, VERA; *COMPUTER ALGORITHMS IN FINITE GROUPS AND COMBINATORIAL STRUCTURES* (MCS-7918998*) 12 MONTHS $7,000

UNIVERSITY OF ILLINOIS AT URBANA

MICHALSKI, R S; *STUDIES IN COMPUTER INDUCTION AND PLAUSIBLE INFERENCE* (MCS-7908814 A01) 12 MONTHS $35,613

SAMEH, AHMED; *HIGH QUALITY SOFTWARE FOR NUMERICAL COMPUTATION* (MCS-7918396) 24 MONTHS $105,500

ROBERTSON, JAMES E; *THEORY OF COMPUTER ARITHMETIC* (MCS-8000854) 12 MONTHS $43,553

KUCK, DAVID, AND LAWRIE, DUNCAN H; *COMPUTER SYSTEM ORGANIZATION* (MCS-8001341) 12 MONTHS $125,012

SAGIV, YEHOSHUA C; *DESIGN AND OPTIMIZATION PROBLEMS IN RELATIONAL DATABASE THEORY* (MCS-8003509) 24 MONTHS $99,050

RAU, B R, AND SCHLANSKER, M S; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT* (MCS-8007643) 12 MONTHS $91,493

BROWN, DONNA J; *APPROXIMATION ALGORITHMS FOR RESOURCE ALLOCATION* (MCS-8008154) 24 MONTHS $93,084

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

WISE, DAVID S, AND FRIEDMAN, DANIEL P; *APPLICATIVE PROGRAMMING FOR SYSTEMS* (MCS-7710205 A01) 24 MONTHS $99,082

WAND, MITCHELL, AND FRIEDMAN, DANIEL P; *ALGEBRAIC AND LOGICAL SEMANTICS OF COMPUTATION* (MCS-7906150) 24 MONTHS $99,043

ROBERTSON, EDWARD L; *STUDIES RELATED TO NP-COMPLETE PROBLEMS, STRUCTURE, APPROXIMATION AND BACKTRACKING* (MCS-8005337) 24 MONTHS $66,357

ROBERTSON, EDWARD L; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT* (MCS-8006372) 12 MONTHS $175,000

HOFSTADTER, DOUGLAS R; *SEEK WHENCE: A PROJECT IN PATTERN UNDERSTANDING* (MCS-8008901) 12 MONTHS $99,045

PURDUE UNIVERSITY

DENNING, PETER J, AND BOUHANA, JAMES; *INDUSTRY/UNIVERSITY COOPERATIVE PROGRAM (IUC) - OPERATIONAL ANALYSIS OF QUEUEING PHENOMENA* (MCS-7901729 A01*) 24 MONTHS $79,747

DENNING, PETER J, AND BUZEN, JEFFREY P; *OPERATIONAL ANALYSIS OF QUEUEING PHENOMENA* (MCS-7901729 A02*) $1,523

FU, KING-SUN; *PARALLEL ALGORITHMS AND COMPUTER ARCHITECTURES FOR IMAGE PROCESSING AND PATTERN RECOGNITION* (MCS-7910906 A01) $3,942

HWANG, KAI, AND FU, KING-SUN; *PARALLEL ALGORITHMS AND COMPUTER ARCHITECTURES FOR IMAGE PROCESSING AND PATTERN RECOGNITION* (MCS-7911806 A01) 12 MONTHS $105,811

YAO, S B; *DESIGN, MODELING AND PERFORMANCE OF DATA BASE SYSTEM* (MCS-7901139 A01) 12 MONTHS $49,952

RICE, JOHN R; *TEMPLATE PROCESSORS AND POLYPACK EVALUATION* (MCS-7903109) 12 MONTHS $89,995

GAUTSCHI, WALTER; *GAUSS TYPE QUADRATURE RULES* (MCS-7907110*) 24 MONTHS $89,171

BERMAN, FRANCINE; *THEORETICAL AND PRACTICAL CONSIDERATIONS IN PROPOSITIONAL DYNAMIC LOGIC* (MCS-8006107) 24 MONTHS $84,377

SMITH, CARL, AND YOUNG, PAUL R; *WORKSHOP ON RECURSION THEORETIC ASPECTS OF COMPUTER SCIENCE AT PURDUE UNIVERSITY DURING MAY OF 1981* (MCS-8007269) 10 MONTHS $9,500

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

KAPURA, DENNIS G; *A REFERENCE STRING SAMPLING TECHNIQUE FOR TIME-CRITICAL SYSTEMS* (MCS-7903970 A01) $9,335

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

SLUTZKI, GIORA; *EXTENSIONS OF MACRO GRAMMARS AND STACK CONTROLLED MACHINES* (MCS-8005631) 12 MONTHS $10,975

KENTUCKY

UNIVERSITY OF KENTUCKY

GILES, FREDERICK R; *INTEGRALITY AND COMBINATORIAL OPTIMIZATION* (MCS-8005907*) 12 MONTHS $9,907

MARYLAND

JOHNS HOPKINS UNIVERSITY

SUBRAHMANIAN, S RAO; *APPLICATIONS OF BASIC THEORY OF COMPUTING* (MCS-7903163 A01) 12 MONTHS $92,981

UNIVERSITY OF MARYLAND, COLLEGE PARK

ROSENFELD, AZRIEL, AND HAMLET, RICHARD; *THE DEVELOPMENT OF TRANSPORTABLE IMAGE PROCESSING SOFTWARE* (MCS-7716719 A02*) 12 MONTHS $71,420

SHNEIDERMAN, BEN; *STRUCTURED DATA BASE SYSTEMS* (MCS-7710509 A02) 12 MONTHS $92,509

MINKER, JACK, AND JACOBS, BARRY E; *APPLICATIONS OF LOGIC AND THEOREM PROVING TO DATABASES* (MCS-7908319*) 36 MONTHS $197,855

STEWART, JAMES M, AND MUNN, ROBERT J; *THE DEVELOPMENT OF A GENERALIZED TRANSPORTABLE SOFTWARE PACKAGE FOR THE SOLUTION AND REFINEMENT OF MOLECULAR STRUCTURES BY SINGLE CRYSTAL DIFFRACTION TECHNIQUES* (CHE-7920901*) 12 MONTHS $19,000

ROSENFELD, AZRIEL, AND O'LEARY, DIANNE P; *REPRESENTATION AND CONTROL IN COMPUTER VISION: MULTILEVEL RELAXATION APPROACHES* (MCS-7918620*) 12 MONTHS $109,012

YEH, RAYMOND T; *A STUDY OF DESIGN METHODOLOGY IN SOFTWARE AND DATA BASE SYSTEMS* (MCS-7910001) 24 MONTHS $39,697

MASSACHUSETTS

HARVARD UNIVERSITY

LEWIS, HARRY R; *LOGIC, DECISION PROBLEMS, AND COMPLEXITY* (MCS-800-7204) 24 MONTHS $52,591

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SHAPIRO, JEREMY F; *EXPERIMENTAL AND THEORETICAL INVESTIGATIONS INTO INTEGER PROGRAMMING DUAL METHODS* (MCS-7710434 A01) 12 MONTHS $57,693

KUH, EDWIN; *THE RELIABILITY OF ECONOMIC MODELS* (MCS-7710302 A04*) 12 MONTHS $143,099

PRATT, VAUGHAN R; *DYNAMIC LOGIC* (MCS-7906110 A01) 12 MONTHS $68,749

KAPLOW, ROY; *NEW INTERACTIVE COMPUTER USE STRATEGIES BASED ON THE ENHANCED INPUT TERMINAL SYSTEM* (MCS-7908733 A01*) 12 MONTHS $102,010

RIVEST, RONALD L; *CONCRETE COMPUTATIONAL COMPLEXITY* (MCS-7908343 A01) 12 MONTHS $90,200

KLEVA, VIRGINIA; *SUMMER RESEARCH CONFERENCES IN NUMERICAL AND STATISTICAL ANALYSIS* (MCS-7810379 A02*) 12 MONTHS $13,000

PAPADIMITRIOU, CHRISTOS; *THE COMPLEXITY OF COMBINATORIAL OPTIMIZATION* (MCS-7809963 A01) 24 MONTHS $40,468

PARIKH, ROHIT J; *LOGICS OF COMPUTATION* (MCS-7910681 A01) 12 MONTHS $53,451

SUSSMAN, GERALD J, AND HEWITT, CARL E; *COMPUTER AIDED EVOLUTIONARY DESIGN FOR SOFTWARE ENGINEERING* (MCS-7911179*) 12 MONTHS $100,000

DENNIS, JACK B; *DATA FLOW COMPUTER ARCHITECTURE* (MCS-7915133) 12 MONTHS $73,303

GALLAGER, ROBERT; *THE DYNAMICS OF DATA NETWORK RESEARCH* (MCS-7910940*) 12 MONTHS $22,000

RICHARDS, WHITMAN A; *NATURAL COMPUTATION AND CONTROL* (MCS-7911111*) 12 MONTHS $10,196

LISKOV, BARBARA; *PRIMITIVES FOR DISTRIBUTED COMPUTING* (MCS-7912709) 24 MONTHS $135,991

ABELSON, HAROLD; *INFORMATION TRANSFER IN DISTRIBUTED COMPUTATIONS* (MCS-7910464*) 24 MONTHS $13,042

MILLER, GARY L; *COMPLEXITY OF CERTAIN NUMBER THEORETIC AND GRAPH THEORETIC PROBLEMS* (MCS-8007710) 24 MONTHS $61,399

MEYER, ALBERT R; *LOGIC OF PROGRAMS AND COMPUTATIONAL COMPLEXITY* (MCS-8[illegible]) 12 MONTHS $113,374

TUFTS UNIVERSITY

CYBENKO, GEORGE; *THE GENERATION OF RANDOM LINEAR ALGEBRAIC SAMPLE DATA* (MCS-8004894) 24 MONTHS $35,697

UNIVERSITY OF MASSACHUSETTS, AMHERST

LEDGARD, HENRY F; *HUMAN FACTORS IN INTERACTIVE LANGUAGES AND SYSTEMS* (MCS-7909916 A01) $5,000

RISEMAN, EDWARD M; *A COMPUTER SYSTEM FOR VISUAL INTERPRETATION OF NATURAL SCENES* (MCS-7910459 A01) 12 MONTHS $124,600

ARBIB, MICHAEL A, AND MANES, EHNERT G; *PARTIALLY ADDITIVE SEMANTICS OF PROGRAMMING LANGUAGES* (MCS-8003110) 24 MONTHS $79,997

RISEMAN, EDWARD M, AND LESSER, VICTOR R; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT* (MCS-8007367) 12 MONTHS $119,945

MICHIGAN

MICHIGAN STATE UNIVERSITY

PAGE, CARL V; *A STUDY OF AUGMENTED RELAXATION LABELING FOR PARALLEL IMAGE UNDERSTANDING* (MCS-8004110) 12 MONTHS $[illegible]

UNIVERSITY OF MICHIGAN

BURKS, ARTHUR W, AND HOLLAND, JOHN H; *FORMAL AND INTERDISCIPLINARY STUDIES OF ADAPTIVE AND COMPUTING SYSTEMS 1979-1982 (MCS-7826016 A01*)*; 12 MONTHS $66,909

SEVERANCE, DENNIS G; *PLIABLE, ELASTIC, AND DURABLE SECONDARY MEMORY FRAMES: THEIR APPLICATION TO DATABASE DESIGN (MCS-7826597 A01)*; 12 MONTHS $55,359

HOLLAND, JOHN H; *AN INTERDISCIPLINARY WORKSHOP IN ADAPTIVE SYSTEMS TO BE HELD AT THE UNIVERSITY OF MICHIGAN ON JULY 21-23, 1980 (MCS-8002446)*; 7 MONTHS $6,800

VOLZ, RICHARD A; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8007023*)*; 12 MONTHS $89,400

ATKINS, DANIEL E; *HIGH-PERFORMANCE, APPLICATION-DIRECTED ARITHMETIC PROCESSORS (MCS-8007298)*; 12 MONTHS $84,593

MINNESOTA

UNIVERSITY OF MINNESOTA-AGRICULTURAL EXPERIMENT STATION

IBARRA, OSCAR H; *COMPLEXITY OF COMPUTATION (MCS-7801736 A02)*; 12 MONTHS $33,561

IBARRA, OSCAR H; *COMPLEXITY OF COMPUTATION (MCS-7801736 A03)*; $30,512

UNIVERSITY OF MINNESOTA

SAHNI, SARTAJ K; *ALGORITHMIC STUDY OF COMBINATORIAL PROBLEMS (MCS-8005856)*; 12 MONTHS $47,338

ROSEN, J B, THOMPSON, WILLIAM B, AND FRANTA, WILLIAM R; *COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8006308*)*; 12 MONTHS $118,000

SCHNEIDER, G MICHAEL; *AN EXPERIMENTAL INVESTIGATION OF NOVICE/ EXPERT BEHAVIOR IN PROGRAM COMPREHENSION (MCS-8016549)*; 12 MONTHS $31,370

MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY

BOGGESS, LOIS C; *PREPOSITIONS AS SPATIAL OPERATORS: A NATURAL LANGUAGE VISUAL ANALOG AND INFERENCING SYSTEM (MCS-8004885)*; 12 MONTHS $23,929

MISSOURI

UNIVERSITY OF MISSOURI, ROLLA

MAGEL, KENNETH I; *THE IMPACT OF PROGRAM OPTIMIZATION ON NEW SOFTWARE DEVELOPMENT METHODOLOGIES (MCS-8002667)*; 24 MONTHS $33,777

WASHINGTON UNIVERSITY

FRANKLIN, MARK A; *CONTINUOUS SYSTEMS SIMULATION ON MULTIPROCESSOR SYSTEMS (MCS-7820731 A01)*; 12 MONTHS $107,526

NEW HAMPSHIRE

DARTMOUTH COLLEGE

DRYSDALE, ROBERT L; *ALGORITHMS IN COMPUTATIONAL GEOMETRY AND GRAPH THEORY (MCS-8002412)*; 24 MONTHS $20,010

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

FREUDER, EUGENE C; *CONSTRAINT SATISFACTION: RELATING THE STRUCTURE OF THE PROBLEM TO THE STRUCTURE OF THE SOLUTION (MCS-8003307)*; 12 MONTHS $24,236

NEW JERSEY

NEW JERSEY INSTITUTE OF TECHNOLOGY

HILTZ, STARR R; *THE IMPACT OF COMPUTER CONFERENCING SYSTEMS ON SCIENTIFIC RESEARCH (MCS-7727813 A01)*; $9,980

TUROFF, MURRAY; *COMPUTER BASED CONFERENCING (MCS-7800519 A02)*; 12 MONTHS $198,442

PRINCETON UNIVERSITY

LIEBERHERR, KARL J; *COMBINATORIAL OPTIMIZATION AND SEARCH PROBLEMS (MCS-8004490)*; 24 MONTHS $26,507

LIPTON, RICHARD J; *COMPUTATIONAL COMPLEXITY (MCS-8023806)*; 12 MONTHS $36,100

RUTGERS UNIVERSITY-BUSCH CAMPUS

MC CARTY, L THORNE, AND SRIDHARAN, N S; *AN EXPERIMENT IN ARTIFICIAL INTELLIGENCE AND LEGAL REASONING (MCS-7921471 A01)*; 12 MONTHS $101,607

YASUHARA, ANN; *COMPUTABILITY ON TERM ALGEBRAS (MCS-8009534)*; 12 MONTHS $30,283

RUTGERS UNIVERSITY

STATMAN, RICHARD; *SYNTAX AND SEMANTICS OF THE TYPED LAMBDA-CALCULUS (MCS-7923199)*; 12 MONTHS $7,255

MINSKY, NAFTALY, AND LOCKMAN, ABE D; *PROTECTION OF INFORMATION SYSTEMS (MCS-8009811)*; 12 MONTHS $63,357

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

ADAMS, J M; *A LANGUAGE DESIGNED FOR RELIABILITY (MCS-8005106)*; 24 MONTHS $73,208

NEW YORK

CITY COLLEGE

TURCHIN, VALETIN, AND WELDON, CHARLES; *A SUPERCOMPILER SYSTEM BASED ON THE LANGUAGE REFAL (MCS-8007565*)*; 24 MONTHS $100,000

CITY UNIVERSITY OF NEW YORK SYSTEM OFFICE

GOLDFARB, DONALD; *THE USE OF NEGATIVE CURVATURE IN MINIMIZATION ALGORITHMS (MCS-8006065)*; 24 MONTHS $76,986

CLARKSON COLLEGE OF TECHNOLOGY

LYNCH, JAMES F; *PROBLEMS IN FINITE MODEL THEORY (MCS-8002695)*; 24 MONTHS $21,279

SLUTZKI, GIORA; *EXTENSIONS OF MACRO GRAMMARS AND STACK CONTROLLED MACHINES (MCS-8003374)*; 12 MONTHS $10,975

COLUMBIA UNIVERSITY

FILOTTI, ION; *ALGORITHMIC PROBLEMS IN THE TOPOLOGICAL THEORY OF GRAPHS (MCS-7924401)*; 24 MONTHS $38,000

PELED, URI N; *THRESHOLD FUNCTIONS AND THRESHOLD NUMBERS (MCS-8004105)*; 12 MONTHS $13,504

CORNELL UNIVERSITY

HARTMANIS, JURIS; *COMPUTATIONAL COMPLEXITY (MCS-7800418 A04)*; $10,928

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

HARTMANIS, JURIS; *COMPUTATIONAL COMPLEXITY (MCS-7800418 A05)*; 12 MONTHS $71,138

CONSTABLE, ROBERT L; *THE THEORY OF PROGRAMMING LOGICS (MCS-7800953 A02)*; 12 MONTHS $63,964

GREENBERG, DONALD P; *DEVELOPMENT OF COMPUTER GRAPHICS TECHNIQUES AND APPLICATIONS (MCS-7811984 A01)*; 12 MONTHS $173,988

CONWAY, RICHARD W; *DIAGNOSTIC FACILITIES AND INTERACTIVE PROGRAM DEVELOPMENT SYSTEMS (MCS-8003304)*; 12 MONTHS $80,519

VAN-LOAN, CHARLES; *APPLIED MATRIX COMPUTATIONS (MCS-8004106)*; 24 MONTHS $35,000

TEITELBAUM, RAY; *SYNTAX-DIRECTED PROGRAMMING ENVIRONMENTS (MCS-8004218)*; 24 MONTHS $145,033

HARTMANIS, JURIS; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8006921*)*; 12 MONTHS $200,919

NEW YORK UNIVERSITY

WIDLUND, OLOF; *FAST METHODS FOR THE SOLUTION OF LARGE FINITE DIFFERENCE AND FINITE ELEMENT SYSTEMS OF EQUATIONS (MCS-7902882 A01)*; 12 MONTHS $38,000

SCHWARTZ, JACOB T; *THE VLSI SOFTWARE ARCHITECTURES LABORATORY ORIENTED TOWARD LARGE-SCALE PARALLELISM (MCS 7921258*)*; 12 MONTHS $157,000

DAVIS, MARTIN; *LOGICAL INVESTIGATIONS IN COMPUTER SCIENCE (MCS-8002438)*; 12 MONTHS $28,000

GRISHMAN, RALPH; *NATURAL LANGUAGE INTERFACES USING LIMITED SEMANTIC INFORMATION (MCS-8002453)*; 12 MONTHS $63,500

SCHWARTZ, JACOB T; *OPTIMIZATION OF VERY HIGH LEVEL LANGUAGES (MCS-8004349)*; 12 MONTHS $144,500

QUEENS COLLEGE

TILSON, BRET R; *STRUCTURAL HIERARCHIES OF SEMIGROUPS AND RECOGNIZABLE SETS (MCS-8003595*)*; 24 MONTHS $13,300

STATE UNIVERSITY AT ALBANY

ROSENKRANTZ, DANIEL J; *DESIGN THEORY FOR DATABASE SYSTEMS (MCS-7803157 A01*)*; 24 MONTHS $64,811

BLONIARZ, PETER; *GRAPH ALGORITHMS IN SEQUENTIAL AND PARALLEL SETTINGS (MCS-7804316 A01)*; 24 MONTHS $24,704

PAN, VICTOR Y; *DESIGN AND ANALYSIS OF ARITHMETIC ALGORITHMS AND SOME APPLICATIONS (MCS-8003347)*; 24 MONTHS $67,152

HUNT, HARRY B; *TOPICS IN THE COMPLEXITY AND PRACTICAL PROVABILITY OF DISCRETE COMPUTATION MODELS (MCS-8003353*)*; 24 MONTHS $48,848

STATE UNIVERSITY AT BINGHAMTON

KARPOVSKY, MARK; *DETECTION AND LOCATION OF ERRORS IN NUMERICAL COMPUTATIONS (MCS-8008339)*; 24 MONTHS $43,205

STATE UNIVERSITY AT BUFFALO

WITTIE, LARRY D; *COMMUNICATIONS IN LARGE NETWORKS OF MICROCOMPUTERS (MCS-7803166 A01)*; $13,530

SHAPIRO, STUART C; *STUDIES OF DEDUCTIVE NETWORKS FOR THE REPRESENTATION OF KNOWLEDGE (MCS-8006314)*; 12 MONTHS $50,000

WITTIE, LARRY D; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8006925*)*; 12 MONTHS $65,000

GURARI, EITAN M; *COMPUTATIONAL COMPLEXITY OF CERTAIN DECISION PROBLEMS (MCS-8021124)*; 16 MONTHS $12,036

STATE UNIVERSITY AT STONY BROOK

GELERNTER, HERBERT; *COMPUTER-DIRECTED ORGANIC SYNTHESIS ROUTE DISCOVERY (MCS-7816786 A01)*; 12 MONTHS $72,313

HENDERSON, PETER B; *A STUDY OF PROGRAM TRANSFORMATIONS (MCS-8006531)*; 24 MONTHS $62,854

KEDEM, ZVI M; *EFFICIENT ALGORITHMS AND SYSTEMS FOR COMPUTER GRAPHICS (MCS-8025876)*; 21 MONTHS $40,500

SYRACUSE UNIVERSITY

MC CRACKEN, NANCY J; *TYPECHECKING AND IMPLEMENTATION PROPERTIES OF PROGRAMMING LANGUAGES WITH EXTENDED TYPE STRUCTURE (MCS-8004219)*; 24 MONTHS $40,055

UNIVERSITY OF ROCHESTER

LOW, JAMES R, AND FELDMAN, JEROME A; *ADVANCED COMPILING AND DISTRIBUTED COMPUTING (MCS-7902971 A01*)*; 12 MONTHS $133,570

FELDMAN, JEROME A; *ACQUISITION OF COMPUTER SCIENCE AND COMPUTER ENGINEERING RESEARCH EQUIPMENT (MCS-7916911*)*; 12 MONTHS $100,000

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

STEWART, WILLIAM J, AND MC ALLISTER, DAVID F; *NEAR DECOMPOSITION AND ITERATIVE APPROXIMATIONS FOR NETWORKS OF QUEUES (MCS-8004345)*; 24 MONTHS $84,570

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

MAGO, GYULA A, AND STANAT, DONALD F; *USES OF MEMORY IN A COMPUTER BASED ON FUNCTIONAL PROGRAMMING (MCS-7802778 A01)*; 24 MONTHS $122,678

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

WILLETT, MICHAEL; *ANALYSIS OF THE GRAHAM-SHAMIR PUBLIC-KEY CRYPTOGRAPHIC SYSTEM (MCS-8004226)*; 24 MONTHS $19,663

OHIO

KENT STATE UNIVERSITY

WANG, PAUL S; *DESIGN AND ANALYSIS OF COMPUTER ALGORITHMS FOR POLYNOMIAL RATIONAL FUNCTION MANIPULATION (MCS-7802234 A01)*; 24 MONTHS $46,153

VARGA, RICHARD S, AND WANG, PAUL S; *COMPUTER SCIENCE AND COMPUTER ENGINEERING RESEARCH EQUIPMENT (MCS-7920412)*; 12 MONTHS $79,000

OHIO STATE UNIVERSITY

CROW, F C; *TOWARD MORE COMPLICATED COMPUTER IMAGERY (MCS-7920977)*; 12 MONTHS $75,953

CSURI, CHARLES A, PARENT, RICHARD E, AND OLSON, KARL; *COMPLEX ANIMATION AND COMPLEX OBJECT SYNTHESIS (MCS-7923670)*; 12 MONTHS $173,635

PITTEL, BORIS; *THE PROBABILISTIC ANALYSIS OF COMBINATORIAL PROBLEMS AND ALGORITHMS (MCS-8002966)*; 24 MONTHS $22,603

CSURI, CHARLES A; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8006322*)*; 12 MONTHS $107,400

OREGON

OREGON STATE UNIVERSITY

SMITH, KENNAN T; *MATHEMATICAL ASPECTS OF DIVERGENT BEAM RADIOGRAPHY (MCS-7900330 A01*)*; 12 MONTHS $10,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

FENVES, STEVEN J, EASTMAN, CHARLES M, AND WESTERBERG, ARTHUR W; *DATA BASE METHODS FOR DESIGN (MCS-7822328 A01)*; 12 MONTHS $176,840

PRESTON, KENDALL J; *N-DIMENSIONAL CELLULAR LOGIC (MCS-8000666)*; 20 MONTHS $67,891

CARNEGIE-MELLON UNIVERSITY

MORGAN, M G; *SUBSTITUTION OF INFORMATION TECHNOLOGY FOR ENERGY TECHNOLOGIES (MCS-7623693 A03)*; 12 MONTHS $80,656

ANDREWS, PETER B; *AUTOMATIC THEOREM PROVING IN TYPE THEORY (MCS-7801462 A02)*; 12 MONTHS $47,691

TRAUB, J F, AND KUNG, H T; *PARALLEL PROCESSING AND COMPUTATIONAL COMPLEXITY (MCS-7823678 A02)*; 12 MONTHS $73,599

DIRECTOR, S W, AND SIEWIOREK, DANIEL P; *MULTI-LEVEL COMPUTER AIDED DESIGN OF VLSI DIGITAL SYSTEMS (RCS-7825755 A01*)*; 12 MONTHS $83,999

REDDY, RAJ; *KNOWLEDGE ACQUISITION AND LEARNING IN SPEECH UNDERSTANDING (MCS-7825824 A01)*; 12 MONTHS $116,093

HIBBARD, PETER, AND OSTLUND, NEIL S; *PERFORMANCE EVALUATION OF MULTIPROCESSOR COMPUTER SYSTEMS (MCS-7920698)*; 12 MONTHS $61,653

DREXEL UNIVERSITY

SALTER, RICHARD M; *TOWARD A METHODOLOGY FOR MULTIPROGRAMMED NONDETERMINISM (MCS-8004130)*; 24 MONTHS $25,000

PENNSYLVANIA STATE UNIVERSITY

IRWIN, MARY J, AND HELLER, DON; *VLSI ARCHITECTURES AND ALGORITHMS FOR RECURSIVE COMPUTATIONS (MCS-7809126 A01)*; 24 MONTHS $123,820

LALLEMENT, GERARD; *FINITE PREFIX CODES (MCS-8001558*)*; 24 MONTHS $12,100

LASKOWSKI, SHARON J; *THE HEURISTIC APPROACH TO PROBLEMS IN COMPUTATIONAL COMPLEXITY (MCS-8002681)*; 24 MONTHS $22,732

JOHNSON, DONALD B; *ALGORITHMS AND COMPUTATIONAL COMPLEXITY (MCS-8002684)*; 24 MONTHS $54,950

ALT, HELMUT; *COMPUTATIONAL COMPLEXITY OF ARITHMETIC OPERATIONS (MCS-8003357)*; 24 MONTHS $23,612

UNIVERSITY OF PENNSYLVANIA

BAJCSY, RUZENA K, JOSHI, ARAVIND K, AND BADLER, NORMAN I; *SCENE UNDERSTANDING (MCS-7807466 A02*)*; 12 MONTHS $67,271

JOSHI, ARAVIND K; *RESEARCH IN NATURAL LANGUAGE PROCESSING (MCS-7808401 A02)*; 12 MONTHS $116,040

UNIVERSITY OF PENNSYLVANIA-WHARTON SCHOOL OF FINANCE AND COMMERCE

HEIBERGER, RICHARD M; *ROBUSTNESS OF ALGORITHMS FOR REGRESSION AND ANALYSIS OF VARIANCE (MCS-7911281)*; 18 MONTHS $40,011

UNIVERSITY OF PITTSBURGH

RHEINBOLDT, WERNER C; *COMPUTATIONAL CONTINUATION PROCESSES FOR THE SOLUTION OF NONLINEAR SYSTEMS OF EQUATIONS (MCS-7805299 A02)*; 12 MONTHS $43,778

RHODE ISLAND

BROWN UNIVERSITY

MILLWARD, RICHARD B; *A REAL-TIME LABORATORY COMPUTER FOR COGNITIVE SCIENCE (BNS-7816273 A01*)*; 6 MONTHS $4,500

GRENANDER, ULF, AND FREIBERGER, WALTER; *A THEORY OF PATTERNS AND ITS APPLICATIONS (MCS-7924983)*; 12 MONTHS $98,724

SOUTH CAROLINA

THE CITADEL

COMER, STEPHEN D; *A STUDY OF MULTIVALUED SYSTEMS AND THEIR APPLICATIONS (MCS-8003896)*; 24 MONTHS $15,000

TENNESSEE

VANDERBILT UNIVERSITY

FISCHER, PATRICK C; *AN INTEGRATED APPROACH TO THE DESIGN OF DATA BASE MANAGEMENT OPERATING SYSTEMS (MCS-8007706)*; 6 MONTHS $11,100

FISCHER, PATRICK C; *AN INTEGRATED APPROACH TO THE DESIGN OF DATA BASE MANAGEMENT OPERATING SYSTEMS (MCS-8007706 A01)*; 12 MONTHS $63,820

TEXAS

ANALYSIS RESEARCH AND COMPUTATIONS

MULVEY, JOHN M; *CONFERENCE ON TESTING AND VALIDATING MATHEMATICAL PROGRAMMING ALGORITHMS AND SOFTWARE TO BE HELD AT THE NBS IN BOULDER, CO. ON JANUARY 5-6, 1981 (MCS-8007250)*; 18 MONTHS $13,651

RICE UNIVERSITY

JUMP, J R; *INTERCONNECTION SCHEMES FOR HIGH PERFORMANCE MODULAR COMPUTING SYSTEMS (MCS-8001667)*; 24 MONTHS $107,350

HIRSCHBERG, DANIEL S; *PARALLEL ALGORITHMIC TECHNIQUES (MCS-8003431)*; 24 MONTHS $53,852

SINCLAIR, JAMES B; *TASK ASSIGNMENT IN DISTRIBUTED PROCESSING SYSTEMS (MCS-8004107)*; 24 MONTHS $55,986

KENNEDY, KENNETH W; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8008887*)*; 12 MONTHS $114,936

SOUTHERN METHODIST UNIVERSITY

MATULA, DAVID W; *FOUNDATION OF FINITE PRECISION ARITHMETIC (MCS-8012704*)*; 11 MONTHS $24,013

UNIV OF TEXAS AT AUSTIN

LIPOVSKI, GERALD J, BROWNE, JAMES C, AND TAYLOR, H L; *RECONFIGURABLE VARISTRUCTURE ARRAY PROCESSOR (MCS-7720698 A02)*; 12 MONTHS $162,779

BLEDSOE, WOODROW W; *RESEARCH ON AUTOMATIC THEOREM PROVING AND APPLICATIONS (MCS-7720701 A03)*; 12 MONTHS $76,700

YOUNG, DAVID M, AND KINCAID, DAVID R; *RESEARCH AND DEVELOPMENT OF ITERATIVE ALGORITHMS AND SOFTWARE FOR ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS (MCS-7919829*)*; 12 MONTHS $50,673

CHANDY, K M, AND MISRA, JAYADEV; *PERFORMANCE AND CORRECTNESS OF DISTRIBUTED SYSTEMS (MCS-7925383)*; 24 MONTHS $119,871

BROWN, FRANK M; *AUTOMATIC INFERENCE IN METATHEORY (MCS-8004210)*; 24 MONTHS $48,000

UNIV OF TEXAS AT DALLAS

DURAN, JOE; *A STUDY OF PROGRAM TESTING AND SOFTWARE RELIABILITY ESTIMATION (MCS-8003322)*; 24 MONTHS $94,865

UNIV OF TEXAS AT EL PASO

LIFSCHITZ, VLADIMIR; *THE PROBABILISTIC ANALYSIS OF COMBINATORIAL PROBLEMS AND ALGORITHMS (MCS-8002442)*; 24 MONTHS $18,122

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

HUANG, JUNG-CHAN G; *COMPUTER PROGRAM TESTING (MCS-8001648)*; 24 MONTHS $55,000

UTAH

UNIVERSITY OF UTAH

LINDSTROM, GARY; *HIGHER-LEVEL CONTROL DESCRIPTION IN PROGRAMMING LANGUAGES (MCS-7803832 A01)*; 24 MONTHS $68,684

RIESENFELD, RICHARD F; *SUBDIVISION ALGORITHMS FOR CURVED SURFACE REPRESENTATION AND DISPLAY (MCS-8004116)*; 24 MONTHS $164,969

GRISS, MARTIN L; *IMPLEMENTATION STRATEGIES FOR PORTABLE LISP BASED SYSTEMS (MCS-8007034)*; 24 MONTHS $186,477

HOLLAAR, LEE A; *CONTINUED ANALYSIS AND DEVELOPMENT OF SPECIALIZED BACKEND PROCESSORS FOR VERY LARGE TEXT DATABASES (MCS-8021116)*; 12 MONTHS $44,969

UTAH STATE UNIVERSITY

BEZDEK, JAMES C; *OPTIMIZATION AND VALIDITY TESTS FOR THE GENERALIZED C-VARIETIES CLUSTERING ALGORITHMS (MCS-8002856)*; 24 MONTHS $32,880

VIRGINIA

UNIVERSITY OF VIRGINIA

PRATT, TERRENCE W; *A FORMAL THEORY OF PROGRAMMING LANGUAGE DEFINITION (MCS-7800763 A01)*; 24 MONTHS $76,479

BATSON, A P; *COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8006576*)*; 12 MONTHS $149,000

MANSFIELD, LOIS; *RESEARCH ON FINITE ELEMENT METHODS (MCS-8016532)*; 12 MONTHS $33,180

VIRGINIA POLYTECHNIC INSTITUTE

SHAPIRO, LINDA G; *ANALYSIS OF SCENES USING TWO-DIMENSIONAL SHAPE INFORMATION (MCS-7919741 A01)*; 12 MONTHS $41,603

HARALICK, ROBERT M; *ANALYSIS OF SCENES USING TWO-DIMENSIONAL SHAPE INFORMATION (MCS-7923827 A02)*; 12 MONTHS $30,908

HARALICK, ROBERT M; *THE DEVELOPMENT OF TRANSPORTABLE IMAGE PROCESSING SOFTWARE (MCS-7927099*)*; 18 MONTHS $80,700

WASHINGTON

UNIVERSITY OF WASHINGTON

RITCHIE, ROBERT W, FISCHER, MICHAEL J, AND LADNER, RICHARD E; *SEMANTICS AND COMPLEXITY OF COMPUTATION (MCS-7702474 A05)*; 4 MONTHS $13,092

LAZOWSKA, EDWARD D; *ERROR MINIMIZATION IN APPROXIMATE ANALYTIC MODELS OF COMPUTER SYSTEMS (MCS-7804347 A01)*; 24 MONTHS $79,558

PETERSON, ARTHUR V, AND KRONMAL, RICHARD A; *EFFICIENT GENERATION OF RANDOM VARIABLES FROM AN ARBITRARY PROBABILITY DISTRIBUTION (MCS-7924382*)*; 24 MONTHS $45,000

FISCHER, MICHAEL J, AND LADNER, RICHARD E; *THEORY OF ADVANCED COMPUTING STRUCTURES (MCS-8003237)*; 12 MONTHS $144,293

NOE, JERRE D; *A FUNCTIONALLY INTEGRATED ENVIRONMENT FOR DISTRIBUTED COMPUTATION (MCS-8004111)*; 12 MONTHS $819,037

WASHINGTON STATE UNIVERSITY

BENSON, DAVID B; *ALGEBRAIC STRUCTURES FOR COMPUTER PROGRAMS IN PROGRAM SPECIFICATIONS (MCS-8003433)*; 24 MONTHS $86,488

WINKLMANN, KARL; *DYNAMIC LOGIC, OVERLAP ARGUMENTS, AND SQUARE-FREE STRINGS (MCS-8004128)*; 24 MONTHS $23,104

MARSAGLIA, GEORGE; *THE GENERATION AND USE OF RANDOM VARIABLES IN COMPUTERS (MCS-8005789*)*; 24 MONTHS $50,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

CRYER, COLIN W; *FREE BOUNDARY PROBLEMS (MCS-7726732 A01)*; 24 MONTHS $56,395

DEWITT, DAVID J; *INVESTIGATION OF DATA-FLOW MACHINES FOR RELATIONAL DATABASE MANAGEMENT SYSTEMS (MCS-7801721 A01)*; 24 MONTHS $58,902

FISCHER, CHARLES N; *ADVANCES IN THE THEORY AND DESIGN OF DIAGNOSTIC, ERROR CORRECTING COMPILERS (MCS-7802570 A01*)*; 24 MONTHS $83,552

MANGASARIAN, OLVI L, MEYER, R R, AND ROBINSON, S M; *COMPUTATION AND THEORY IN NONLINEAR PROGRAMMING (MCS-7901066 A01)*; 12 MONTHS $85,436

COOK, ROBERT P; *MAKER - A SOFTWARE IMPLEMENTATION TOOL FOR DISTRIBUTED SYSTEMS (MCS-8003341)*; 24 MONTHS $62,202

HAVENS, WILLIAM S; *APPLYING RECURSIVE CUE/MODEL HIERARCHIES TO SCHEMATA BASED COMPUTER VISION (MCS-8004882)*; 12 MONTHS $23,572

TRAVIS, LARRY E; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8006499*)*; 12 MONTHS $90,025

LANDWEBER, LAWRENCE H; *CSNET-A COMPUTER SCIENCE RESEARCH NETWORK (MCS-8007757)*; 6 MONTHS $49,809

ASTRONOMICAL, ATMOSPHERIC, EARTH AND OCEAN SCIENCES

ATMOSPHERIC SCIENCE

ALABAMA

UNIVERSITY OF ALABAMA IN HUNTSVILLE

WU, SHI-TSAN; *SOLAR ATMOSPHERIC DYNAMICS (ATM-7722484 A01)*; 12 MONTHS $65,000

ALASKA

UNIVERSITY OF ALASKA-FAIRBANKS-GEOPHYSICAL INSTITUTE

AKASOFU, SYUN-ICHI; *STUDY OF MAGNETOSPHERIC SUBSTORMS (ATM-7726522 A02)*; 12 MONTHS $151,000

OHTAKE, TAKESHI, AND WENDLER, GERD; *ARTIFICIAL DISSIPATION OF ARCTIC STRATUS CLOUDS (ATM-7727748 A02)*; 12 MONTHS $74,100

SHAW, GLENN E; *THE MAGNITUDE AND VARIABILITY OF SOLAR SPECTRAL IRRADIANCE (ATM-7812185 A01*)*; 12 MONTHS $44,000

AKASOFU, SYUN-ICHI; *A STUDY OF MAGNETIC AND AURORAL DATA FROM THE IMS ALASKA MERIDIAN CHAIN OBSERVATORIES (ATM-7902953 A01*)*; 12 MONTHS $95,100

WILSON, CHARLES R; *MIDDLE ATMOSPHERE WIND STUDY BY MICROBAROM ANALYSIS (ATM-7911891*)*; 12 MONTHS $106,900

SHERIDAN, J R; *LABORATORY STUDIES OF ATMOSPHERIC HYDROGEN BALMER EMISSIONS (ATM-7916502)*; 9 MONTHS $20,000

DAVIS, T NEIL; *STUDY OF THE AURORAL BREAKUP PROCESS AND ITS RELATION TO OTHER IONOSPHERIC AND MAGNETOSPHERIC PHENOMENA (ATM-7921978)*; 12 MONTHS $19,800

SWIFT, DANIEL W; *THEORETICAL STUDIES OF AURORAL AND MAGNETOSPHERIC PHENOMENA (ATM-7923614)*; 12 MONTHS $100,500

HEACOCK, RICHARD R, AND OLSON, J V; *INVESTIGATIONS OF THE RELATIONS OF MICROPULSATIONS TO MAGNETOSPHERIC PLASMA STRUCTURE (ATM-7923780)*; 12 MONTHS $63,400

ROMICK, GERALD J, AND AKASOFU, SYUN-ICHI; *OPERATION OF THE ALASKA-CANADA HIGH LATITUDE MAGNETOMETER CHAIN OF STATIONS (ATM-8010807)*; 24 MONTHS $146,000

UNIVERSITY OF ALASKA-FAIRBANKS

DEGEN, VLADIMIR; *COMPUTER MODELING OF MOLECULAR SPECTRA FOR AURORAL STUDIES (ATM-7918790)*; 12 MONTHS $35,000

REES, MANFRED H; *EXPERIMENTAL AND THEORETICAL RESEARCH ON THE AURORA BOREALIS (ATM-7923268)*; 12 MONTHS $91,100

ARIZONA

LOWELL OBSERVATORY

LOCKWOOD, G W; *SOLAR AND PLANETARY VARIATIONS NEAR SOLAR MAXIMUM (ATM-7817325 A01)*; 12 MONTHS $43,100

UNIVERSITY OF ARIZONA

HERMAN, BENJAMIN M, REAGAN, JOHN A, AND SCHOTLAND, RICHARD M; *AEROSOL OPTICAL PROPERTIES AND THEIR RADIATIONAL EFFECTS (ATM-7724493 A03)*; 3 MONTHS $2,727

GALL, ROBERT L, AND STALEY, DEAN O; *THE DYNAMICS OF MID-LATITUDE EDDIES (ATM-7920158)*; 12 MONTHS $52,700

LEVY, E H, AND JOKIPII, J R; *THEORETICAL STUDIES OF INTERPLANETARY MAGNETIC FIELDS, TURBULENCES AND COSMIC RAYS (ATM-7922018)*; 24 MONTHS $81,800

DAMON, PAUL E, DONAHUE, DOUGLAS J, FERGUSON, C W, LERMAN, JUAN C, AND LONG, AUSTIN; *RADIOCARBON AND CLIMATE (ATM-7923259*)*; 12 MONTHS $15,000

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

RICHARDSON, CHARLES B; *A LABORATORY STUDY OF SULFATE AEROSOLS USING ELECTRODYNAMIC SUSPENSION (ATM-7916598)*; 24 MONTHS $86,018

ANDERSON, RICHARD J, AND SALAMO, GREGORY J; *EXCITATION OF ATOMIC OXYGEN BY LOW-ENERGY ELECTRON IMPACT (ATM-7918900)*; 12 MONTHS $55,100

CALIFORNIA

AEROSPACE CORPORATION

MIZERA, PAUL F, AND MOZER, FORREST S; *AURORAL ACCELERATION AND THE QUANTIFICATION OF INTENSE AURORA (ATM-8000518)*; 12 MONTHS $140,200

MARTIN, L ROBBIN, JUDEIKIS, HENRY S, AND WUN, MARILYN; *INVESTIGATION OF PHOTOASSISTED HETEROGENEOUS REACTIONS OF ATMOSPHERIC GASES (ATM-8009244)*; 12 MONTHS $60,508

CALIFORNIA INSTITUTE OF TECHNOLOGY

ZIRIN, HAROLD; *RADIO OBSERVATIONS OF THE SUN AT CENTIMETER AND MILLIMETER WAVELENGTHS (ATM-7906345 A01)*; 12 MONTHS $75,000

ZIRIN, HAROLD; *RESEARCH IN SOLAR ACTIVITY AND SOLAR PROMINENCES (ATM-7911139)*; 12 MONTHS $150,000

SEINFELD, JOHN H; *HETEROGENEOUS ATMOSPHERIC CHEMISTRY OF ORGANIC AEROSOLS (ATM-8007272)*; 24 MONTHS $200,354

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

MARTIN, SARA F, HOWARD, ROBERT, AND ZIRIN, HAROLD; *RENEWED SYNOPTIC OBSERVATIONS AND RESEARCH ON BASIC PROPERTIES OF THE SOLAR CYCLE (ATM-8000519)*; 17 MONTHS $25,400

LAWRENCE BERKELEY LABORATORY

NOVAKOV, TIHOMIR, AND ROSEN, HAL; *METHODOLOGY FOR THE DIFFERENTIATION AND QUANTIFICATION OF THE PRIMARY AND SECONDARY CARBONACEOUS AEROSOL (ATM-8013707)*; 12 MONTHS $109,979

LOCKHEED MISSILES AND SPACE COMPANY INC-LOCKHEED PALO ALTO RESEARCH LABORATORY

SHARP, RICHARD D; *IONOSPHERIC ACCELERATION MECHANISMS (ATM-7911174 A01)*; 12 MONTHS $81,800

SAN DIEGO STATE UNIVERSITY

ANGIONE, RONALD J; *MODERN AND HISTORICAL ANALYSES OF THE SOLAR CONSTANT (ATM-7707987 A02*)*; 12 MONTHS $19,000

SCIENCE APPLICATIONS INC

HUBA, JOSEPH D; *ANOMALOUS TRANSPORT PROCESSES IN THE MAGNETOSPHERE (ATM-8004334)*; 12 MONTHS $17,508

SRI INTERNATIONAL

RUSSELL, PHILIP B, AND UTHE, EDWARD E; *STUDY OF AEROSOL EFFECTS ON SOLAR RADIATION USING LIDAR AND AN INSTRUMENTED TOWER (ATM-7802704 A01)*; 12 MONTHS $90,000

SLANGER, TOM G; *SOME AERONOMIC PROBLEMS IN PHOTODISSOCIATION, PHOTOABSORPTION, AND ENERGY TRANSFER (ATM-7807605 A02)*; 12 MONTHS $63,700

BARON, MURRAY J, AND VONDRAK, R R; *CHATANIKA INCOHERENT-SCATTER RADAR OPERATION AND COORDINATION (ATM-7823658 A01)*; 12 MONTHS $914,800

BARON, MURRAY J; *CHATANIKA INCOHERENT-SCATTER RADAR OPERATION AND COORDINATION (ATM-7823658 A02*)*; 12 MONTHS $7,000

OLSON, RONALD E, AND SAXON, ROBERTA P; *COLLISION SPECTROSCOPY IN DIATOMIC SYSTEMS (ATM-7825406*)*; 12 MONTHS $48,000

VICKREY, JAMES F; *INCOHERENT SCATTER STUDIES OF MID-LATITUDE IONOSPHEREPROTONOSPHERE COUPLING (ATM-7826851 A01)*; 12 MONTHS $57,400

LEE, L C; *EMISSIONS FROM PHOTOFRAGMENTS OF HO2 (ATM-7909307)*; 12 MONTHS $70,426

ROSS, DAVID S, AND HENDRY, DALE; *NOX-AEROSOL CHEMISTRY IN THE ATMOSPHERE (ATM-7922008)*; 12 MONTHS $92,448

KELLY, JOHN D, AND BARON, MURRAY J; *CHATANIKA RADAR RELOCATION ENGINEERING STUDY (ATM-7927050)*; 12 MONTHS $75,100

BHUMRALKAR, CHANDRAKA M, AND LUDWIG, FRANCIS L; *THEORETICAL AND OBSERVATIONAL STUDY OF THE CAUSES OF INADVERTENT WEATHER MODIFICATION (ATM-8011295)*; 12 MONTHS $65,100

STANFORD UNIVERSITY

HELLIWELL, ROBERT A; *MAGNETOSPHERE-IONOSPHERE-ATMOSPHERE INTERACTIONS (ATM-7820967 A01)*; 12 MONTHS $95,000

BRACEWELL, RONALD N; *A STUDY OF SOLAR ACTIVE REGION AND FLARE RADIO DATA (ATM-7921326)*; 12 MONTHS $50,000

UNIVERSITY OF CALIFORNIA, BERKELEY

LIN, ROBERT P; *HIGH RESOLUTION HARD X-RAY OBSERVATIONS OF THE SUN (ATM-7924559)*; 12 MONTHS $49,700

MOZER, FORREST S; *ANALYSES OF BALLOON ELECTRIC FIELD DATA OBTAINED DURING THE INTERNATIONAL MAGNETOSPHERIC STUDY (ATM-8002097)*; 12 MONTHS $48,100

UNIVERSITY OF CALIFORNIA, DAVIS

SHAW, ROGER H; *SECOND-ORDER CLOSURE SCHEMES FOR PLANT AERODYNAMICS (ATM-8017915)*; 12 MONTHS $38,000

UNIVERSITY OF CALIFORNIA, IRVINE

VAN-HOVEN, GERARD; *MAGNETIC STRUCTURES AND FIELD RECONNECTION: MECHANISMS OF SOLAR-TERRESTRIAL ACTIVITY (ATM-7911912 A01)*; 12 MONTHS $42,200

BOEHMER, HEINRICH, AND RYNN, NATHAN; *LABORATORY EXPERIMENTS ON THE ELECTRON ACCELERATION UNDER CONDITIONS SIMILAR TO THE AURORAL MAGNETOSPHERE (ATM-7915159 A01)*; 12 MONTHS $60,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

PRUPPACHER, HANS R; *A WIND TUNNEL INVESTIGATION OF MICROPHYSICAL PROCESSES IN ATMOSPHERIC CLOUDS AT TEMPERATURES ABOVE AND BELOW O DEGREES C (ATM-7810817 A02)*; 12 MONTHS $89,800

KENNEL, CHARLES F; *MAGNETOSPHERIC PLASMA PHYSICS (ATM-7819958 A01)*; 12 MONTHS $80,209

SIMONEIT, BERND R; *BIOGENIC ORGANIC MATTER IN TROPOSPHERIC PARTICULATES: ASSESSMENT, SOURCES AND FLUX (ATM-7908645 A01)*; 12 MONTHS $79,188

STENZEL, REINER L, AND GEKELMAN, WALTER; *MAGNETIC FIELD LINE RECONNECTION EXPERIMENTS (ATM-7921331)*; 12 MONTHS $80,000

STENZEL, REINER L, AND GEKELMAN, WALTER; *MAGNETIC FIELD LINE RECONNECTION EXPERIMENTS (ATM-7921331 A01)*; $56,100

KIVELSON, MARGARET G; *A STUDY OF MAGNETOSPHERIC HYDROMAGNETICS (ATM-7923586)*; 12 MONTHS $80,000

DAWSON, JOHN M, AND KENNEL, CHARLES F; *NUMERICAL STUDIES OF MAGNETOHYDRODYNAMICS PROCESSES IN SPACE (ATM-7926492)*; 12 MONTHS $99,300

UNIVERSITY OF CALIFORNIA, RIVERSIDE

WHITE, R STEPHEN, AND BAUM, PETER J; *A LABORATORY STUDY OF MAGNETOSPHERIC PROCESSES (ATM-7819231 A01)*; 12 MONTHS $111,100

PITTS, JAMES N; *THE ROLE OF TRACE ORGANICS AND RADICALS IN CHEMICAL CYCLES IN THE TROPOSPHERE (ATM-8001634)*; 12 MONTHS $194,946

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

SALMON, RICHARD L; *STATISTICAL TURBULENCE THEORY APPLIED TO SIMPLE ATMOSPHERIC MODELS (ATM-7818388 A01)*; 12 MONTHS $43,400

WEISS, RAY F; *TRACE GASES IN THE OCEAN AND ATMOSPHERE (OCE-7920859*)*; 12 MONTHS $18,398

CICERONE, RALPH J; *MEASUREMENTS OF TRACE GASES AND THEORETICAL STUDIES IN ATMOSPHERIC CHEMISTRY (ATM-7923774*)*; 12 MONTHS $104,273

UNIVERSITY OF CALIFORNIA, SAN DIEGO

BOOKER, HENRY G; *A NEW THEORY OF IONOSPHERIC SPREAD F ECHOES (ATM-7802625 A02)*; 12 MONTHS $65,000

SUESS, HANS E; *FURTHER STUDIES OF THE RADIOCARBON RECORD IN TREE-RINGS OF THE LAST 8,000 YEARS (ATM-7919866*)*; 12 MONTHS $10,000

ALFVEN, HANNES, AND THOMPSON, WILLIAM B; *THE ELECTRIC CURRENT STRUCTURE OF THE MAGNETOSPHERE AND HELIOSPHERE (ATM-8012800)*; 12 MONTHS $60,000

COLES, WILLIAM A, RICKETT, BARNABY J, AND RUMSEY, VICTOR H; *RADIOWAVE DIAGNOSTIC STUDIES OF THE EARTH'S PLASMA ENVIRONMENT (ATM-8012801*)*; 24 MONTHS $210,691

UNIVERSITY OF SOUTHERN CALIFORNIA

RHODES, EDWARD J, HOWARD, ROBERT, AND ULRICH, ROGER K; *OSCILLATIONS OF THE SUN AS A PROBE OF LARGE-SCALE SOLAR ACTIVITY AND SOLAR-TERRESTRIAL RELATIONS (ATM-8009469)*; 24 MONTHS $95,000

COLORADO

COLORADO STATE UNIVERSITY

COTTON, WILLIAM R, AND TRIPOLI, GREGORY J; *NUMERICAL SIMULATION AND OBSERVATIONAL ANALYSIS OF MID-LATITUDE CONTINENTAL CUMULONIMBI AND MESOSCALE CONVECTIVE SYSTEMS (ATM-7908297 A01)*; 13 MONTHS $223,000

FINNEGAN, WILLIAM G, GARVEY, DENNIS M, AND GRANT, LEWIS O; *MIXED SILVER HALIDE ICE NUCLEI (ATM-7916504)*; 12 MONTHS $56,200

VONDER HAAR, THOMAS H; *SATELLITE STUDIES OF SEVERE CONVECTIVE STORMS (ATM-7918513*)*; 12 MONTHS $59,800

GRAY, WILLIAM M; *TROPICAL WEATHER SYSTEM STUDIES IN SUPPORT OF GATE, FGGE, AND HURRICANE PROJECT ACTIVITIES (ATM-7923591*)*; 12 MONTHS $40,000

HINDMAN, EDWARD E; *FIRST INTERNATIONAL WORKSHOP ON LIGHT ABSORPTION BY AEROSOL PARTICLES (ATM-8005356)*; 12 MONTHS $51,589

COX, STEPHEN K; *IAMAP RADIATION SYMPOSIUM (ATM-8007247)*; 12 MONTHS $38,000

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION-ENVIRONMENTAL RESEARCH LABORATORIES

BALSLEY, BENJAMIN B; *DEVELOPMENT OF A MESOSPHERE-STRATOSPHERE-TROPOSPHERE RADAR SYSTEM (ATM-7817327 A03)*; 18 MONTHS $224,400

UNIVERSITY OF COLORADO AT BOULDER

CASTLEMAN, A W; *HETEROGENEOUS CHEMISTRY: STUDIES OF THE FORMATION, STABILITY, AND REACTIONS OF SMALL CLUSTERS IMPORTANT IN GAS-TO-PARTICLE CONVERSION REACTIONS IN THE TROPOSPHERE (ATM-7913801 A01)*; 12 MONTHS $110,400

THOMAS, GARY E; *THEORETICAL STUDIES OF PLANETARY ATMOSPHERES (ATM-8007055)*; 12 MONTHS $44,000

UNIVERSITY OF DENVER-DENVER RESEARCH INSTITUTE

MURCRAY, DAVID G; *MEASUREMENT OF ATMOSPHERIC CONSTITUENT PROFILES USING THE SOLAR SPECTRUM AND THE ATMOSPHERIC EMISSION SPECTRUM IN THE INFRARED (ATM-7727633 A02)*; 12 MONTHS $151,763

UNIVERSITY OF DENVER

BARCUS, JAMES R; *INVESTIGATION OF IONIZATION EFFECTS IN THE STRATOSPHERE AT HIGH LATITUDES (ATM-7901183 A01)*; 12 MONTHS $53,000

MURCRAY, DAVID G; *MEASUREMENTS TO TEST FOR THE VARIABILITY OF THE SOLAR CONSTANT (ATM-7903877 A01)*; 12 MONTHS $54,600

MURCRAY, DAVID G; *LABORATORY INFRARED SPECTRAL MEASUREMENTS OF MOLECULES OF INTEREST IN ATMOSPHERIC CHEMISTRY (ATM-7914165)*; 12 MONTHS $52,108

VAN ZYL, BERT; *CROSS SECTION MEASUREMENTS OF IMPORTANCE FOR ANALYSIS OF THE PROTON AURORA (ATM-7918242)*; 12 MONTHS $83,200

PATEL, V L; *STUDY OF GEOPHYSICAL PLASMA WAVES (45-600 S) BY USING IMS MAGNETOMETER NETWORKS (ATM-7923582)*; 12 MONTHS $54,500

GOLDMAN, A; *NEW ATLAS OF HIGH RESOLUTION INFRARED SOLAR SPECTRA (ATM-7927132)*; 12 MONTHS $90,813

CONNECTICUT

CENTER FOR THE ENVIRONMENT AND MAN INC

HERZEGH, PAUL H; *EVALUATION OF C-BAND DOPPLER RADAR FOR WIND AND RAIN MEASUREMENTS (ATM-7722327 A01)*; 12 MONTHS $73,000

BROWN, PHILIP S; *NUMERICAL ANALYSIS OF THE COAGULATION EQUATION WITH COLLISION-INDUCED BREAKUP (ATM-7911140)*; 12 MONTHS $29,300

YALE UNIVERSITY

SMITH, RONALD B; *THE EFFECT OF MOUNTAINS ON SURFACE DRAG AND LOCAL METEOROLOGY (ATM-7722175 A01)*; 12 MONTHS $43,200

DELAWARE

UNIVERSITY OF DELAWARE

WOO, SHIEN-BIA, AND HELMY, EHSAN M; *THE PHOTODETACHMENT CROSS SECTIONS AND SOLAR DETACHMENT RATES OF NO3-, NO2-, AND CO4 (ATM-7718324 A02)*; 6 MONTHS $10,000

DISTRICT OF COLUMBIA

AMERICAN GEOPHYSICAL UNION

SPILHAUS, A F; *CHAPMAN CONFERENCE ON AURORAL ARCS (ATM-8016531)*; 12 MONTHS $4,000

CATHOLIC UNIVERSITY OF AMERICA

WHANG, Y C; *MAGNETOHYDRODYNAMICS OF COROTATING INTERPLANETARY STRUCTURES (ATM-7919271)*; 24 MONTHS $60,000

NATIONAL ACADEMY OF SCIENCES

HART, PEMBROKE J; *SUPPORT OF THE GEOPHYSICS RESEARCH BOARD (GRB) AND THE COMMITTEE ON SOLAR-TERRESTRIAL RESEARCH (CSTR) (ATM-7916131 A02*)*; 12 MONTHS $100,000

FLORIDA

FLORIDA ATLANTIC UNIVERSITY

BURNETT, CLYDE R; *SPECTROSCOPIC MEASUREMENTS OF ATMOSPHERIC HYDROXYL (ATM-7924585)*; 17 MONTHS $36,233

FLORIDA STATE UNIVERSITY

STUART, DAVID W; *TEMPORAL AND SPATIAL FLUCTUATIONS OF THE ATMOSPHERIC MARINE BOUNDARY LAYER ALONG THE PERUVIAN COAST (ATM-7810814 A02)*; 12 MONTHS $56,500

STEPHENS, JESSE J; *FIELD MEASUREMENTS OF MESOSCALE WEATHER SYSTEMS (ATM-7827420 A01)*; 12 MONTHS $51,200

STEPHENS, JESSE J, AND RAY, PETER S; *FIELD MEASUREMENTS OF MESOSCALE WEATHER SYSTEMS (ATM-7827420 A02)*; 12 MONTHS $13,200

LESLIE, ALISTAIR C; *BRUSHFIRE 1980: CHARACTERIZATION OF AEROSOL EMISSIONS FROM FOREST BURNINGS IN THE AMAZON BASIN (ATM-8012919)*; 12 MONTHS $19,200

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

UMAN, MARTIN A; *LIGHTNING RETURN STROKE PROPERTIES FROM ELECTRIC AND MAGNETIC FIELD MEASUREMENTS (ATM-7902627)*; 12 MONTHS $70,700

UNIVERSITY OF FLORIDA

BEASLEY, WILLIAM H; *LIGHTNING AND THUNDERSTORMS (ATM-7918172)*; 12 MONTHS $37,800

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

BLECK, RAINER; *ISENTROPIC MODELING OF ATMOSPHERIC AND OCEANIC CIRCULATION SYSTEMS (ATM-7821739 A01)*; 12 MONTHS $68,600

BRASS, GARRETT W; *SULFUR AND OXYGEN ISOTOPES AND THE ATMOSPHERIC SULFUR CYCLE (ATM-7909239 A01)*; 12 MONTHS $55,400

LHERMITTE, ROGER M; *OBSERVATION AND STUDY OF CONVECTIVE STORMS (ATM-7911887 A01)*; 18 MONTHS $201,300

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

RAVISHANKARA, A R; *A KINETICS INVESTIGATION OF SEVERAL KEY TROPOSPHERIC CHEMICAL REACTIONS (ATM-7810092 A01)*; 12 MONTHS $57,243

DAVIS, DOUGLAS D; *GLOBAL ATMOSPHERIC MEASUREMENTS EXPERIMENT ON TROPOSPHERIC AEROSOLS AND GASES (ATM-7823598 A01)*; 6 MONTHS $18,737

MC DANIEL, EARL W; *THE REACTIONS AND TRANSPORT PROPERTIES OF ATMOSPHERIC IONS (ATM-7906109 A01)*; $1,081

MC DANIEL, EARL W, AND EISELE, FRED L; *MEASUREMENT OF ION TRANSPORT PROPERTIES, ION REACTION RATES, AND TRACE NEUTRAL CONCENTRATIONS OF ATMOSPHERIC INTEREST (ATM-8016881)*; 24 MONTHS $136,699

HAWAII

UNIVERSITY OF HAWAII-MANOA-HONOLULU COMMUNITY COLLEGE

TAKAHASHI, TSUTOMU; *GRAUPEL IN A TWO-DIMENSIONAL AXISYMMETRIC CLOUD MODEL (ATM-8002444)*; 12 MONTHS $58,000

ILLINOIS

NORTHERN ILLINOIS UNIVERSITY

PETERSEN, RALPH A; *DIAGNOSTIC STUDIES OF THE ROLE OF LATENT HEATING DURING CYCLONE DEVELOPMENT (ATM-7815225 A01)*; 12 MONTHS $26,000

UNIVERSITY OF CHICAGO

FUJITA, THEODORE; *RESEARCH AND PUBLICATION OF ' DOWNBURST THUNDERSTORMS ' (ATM-7921260)*; 12 MONTHS $49,400

KUO, HSIAO L; *CLIMATE AND THERMAL CIRCULATION (ATM-7922048*)*; 12 MONTHS $79,140

SIMPSON, JOHN A; *SOLAR FLARE AND SOLAR INTERPLANETARY PHENOMENA INVESTIGATED WITH HIGH ENERGY CHARGED PARTICLES (ATM-7924593)*; 12 MONTHS $191,500

MEYER, PETER; *COMPOSITION, PROPAGATION AND ACCELERATION OF ENERGETIC PARTICLES IN THE SOLAR SYSTEM (ATM-8012937)*; 12 MONTHS $60,000

BRAHAM, ROSCOE R; *LAKE MICHIGAN SNOW STORMS (ATM-8015337)*; 12 MONTHS $423,000

SRIVASTAVA, RAMESH C; *DOPPLER RADAR STUDIES OF CONVECTIVE STORMS (ATM-8016150)*; 12 MONTHS $145,500

UNIVERSITY OF ILLINOIS AT URBANA

ADRIAN, RONALD J; *UNSTEADY FREE CONVECTION (ATM-7722936 A01)*; 12 MONTHS $66,500

ACKERMAN, BERNICE; *LOW LEVEL CONVERGENCE AND THE PREDICTION OF CONVECTIVE PRECIPITATION (ATM-7808865 A04)*; 12 MONTHS $78,400

SASAMORI, TAKASHI; *AN INVESTIGATION OF THE STATIONARY TROUGH OVER THE U.S. CONTINENT DURING WINTER (ATM-7809159 A01*)*; 12 MONTHS $23,500

BOWHILL, SIDNEY A; *STUDIES OF IONOSPHERIC DYNAMICS BY INCOHERENT SCATTER (ATM-7815224 A01)*; 12 MONTHS $60,000

BOWHILL, SIDNEY A; *STUDIES OF UPPER-ATMOSPHERE MOTIONS BY VHF BACKSCATTER (ATM-7821765 A01)*; 12 MONTHS $74,000

CHANGNON, STANLEY A; *TECHNIQUES TO EVALUATE OPERATIONAL WEATHER MODIFICATION PROJECTS: PART II (ATM-7905007 A01)*; 12 MONTHS $98,500

AVERY, SUSAN K, AND BOWHILL, SIDNEY A; *HIGH RESOLUTION METEOR WINDS RADAR OBSERVATIONS AT URBANA, ILLINOIS (ATM-7909982)*; 24 MONTHS $90,000

BEARD, KENNETH V, AND OCHS, HARRY T; *MICROPHYSICS OF PRECIPITATION FORMATION (ATM-7914170)*; 12 MONTHS $85,000

JAMESON, ARTHUR R; *A DUAL-WAVELENGTH RADAR STUDY OF RAIN AND HAIL IN THUNDERSTORMS (ATM-7918365)*; 12 MONTHS $68,500

SECHRIST, CHALMERS F, AND GARDNER, CHESTER S; *THEORETICAL AND LIDAR STUDIES OF ATMOSPHERIC SODIUM LAYER DYNAMICS (ATM-7920726)*; 12 MONTHS $113,000

CHANGNON, STANLEY A; *A STUDY OF SUMMER RAINFALL OVER LAKE MICHIGAN AND ENVIRONS (ATM-8001653)*; 18 MONTHS $78,000

BOWHILL, SIDNEY A, AND MAYES, PAUL E; *ENGINEERING AND COST STUDY OF A PHASED ARRAY ANTENNA FOR THE URBANA COHERENT-SCATTER RADAR (ATM-8002049)*; 4 MONTHS $30,000

LIU, C H, AND YEH, K C; *STUDIES OF IONOSPHERIC SCINTILLATION PROBLEMS (ATM-8007039)*; 12 MONTHS $55,000

SEMONIN, RICHARD G, AND WENDLAND, WAYNE M; *EFFECT OF CONTRAIL CIRRUS ON WEATHER CONDITIONS IN THE MIDWEST - PART II (ATM-8008812)*; 12 MONTHS $67,800

OGURA, Y., AND WILHELMSON, ROBERT B; *NUMERICAL SIMULATION AND OBSERVATIONAL ANALYSIS OF CONVECTIVE STORMS (ATM-8011984)*; 24 MONTHS $217,300

INDIANA

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

WINKLER, ROBERT L, AND MURPHY, ALLAN H; *STUDIES IN PROBABILITY FORECASTING AND THE VALUE OF WEATHER INFORMATION (ATM-7724060 A01)*; 9 MONTHS $12,707

PURDUE UNIVERSITY

SMITH, PHILLIP J; *ENERGETICS ANALYSES OF REGIONAL NUMERICAL PREDICTION MODELS (ATM-7920021)*; 12 MONTHS $51,200

SNOW, JOHN T; *A LABORATORY STUDY OF TORNADO-LIKE VORTEX DYNAMICS (ATM-8003403)*; 12 MONTHS $64,300

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

STANFORD, JOHN L; *GLOBAL ATMOSPHERIC MOTION STUDIES UTILIZING SATELLITE RADIANCE DATA (ATM-7911878)*; 12 MONTHS $48,300

CHEN, TSING-CHA; *ATMOSPHERIC ENERGETICS AND DYNAMICS STUDIES (ATM-7915800)*; 12 MONTHS $48,600

TAKLE, EUGENE S; *DEVELOPMENT, TESTING AND APPLICATION OF A FINITE-ELEMENT ATMOSPHERIC BOUNDARY-LAYER MODEL (ATM-7923354)*; 12 MONTHS $65,500

UNIVERSITY OF IOWA

JOYCE, GLENN R; *INVESTIGATION OF MICROSCOPIC AND MACROSCOPIC PLASMA PROPERTIES WITH APPLICATION TO SPACE PLASMAS (ATM-7822487 A01)*; 12 MONTHS $58,300

NICHOLSON, DWIGHT R, AND PAYNE, GERALD L; *SOLITONS AND IONOSPHERIC MODIFICATION (ATM-7918778)*; 12 MONTHS $52,200

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

ARMSTRONG, THOMAS P; *RESEARCH EQUIPMENT FOR INTERACTIVE DATA ANALYSIS (ATM-8013708)*; 12 MONTHS $35,000

MARYLAND

APPLIED PHYSICS LABORATORY-LAUREL

POTEMRA, THOMAS A; *STUDIES OF AURORAL FIELD-ALIGNED CURRENTS WITH THE TRIAD SATELLITE (ATM-7915238)*; 12 MONTHS $108,400

JOHNS HOPKINS UNIVERSITY

LONG, ROBERT R; *LABORATORY AND THEORETICAL RESEARCH ON CONVECTION AND RELATED PROBLEMS (ATM-7907026)*; 24 MONTHS $84,700

PHILLIPS, O M; *GEOPHYSICAL FLUID DYNAMICS (ATM-7922063)*; 12 MONTHS $73,190

MENG, CHING-I; *A STUDY OF MAGNETOSPHERIC DYNAMICS IN THE POST INTERNATIONAL MAGNETOSPHERIC STUDY PERIOD (ATM-7923240)*; 12 MONTHS $75,000

KRIMIGIS, S M; *STUDIES OF SOLAR AND MAGNETOSPHERIC PARTICLES (ATM-7925987)*; 12 MONTHS $106,900

GREENWALD, RAYMOND A; *A STUDY OF ELECTRICAL COUPLING BETWEEN THE MAGNETOSPHERE AND IONOSPHERE (ATM-8003300)*; 12 MONTHS $90,300

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

DAVIES, KENNETH; *INTERNATIONAL MAGNETOSPHERE STUDY IONOSONDE (ATM-7817301 A03)*; 12 MONTHS $61,700

DAVIES, KENNETH, AND ADAMS, GENE W; *HF RADAR OPERATION AT CHATANIKA AND ROBERVAL (ATM-7817301 A04)*; 6 MONTHS $28,300

UNIVERSITY OF MARYLAND, COLLEGE PARK

KUNDU, MUKUL R; *HIGH RESOLUTION STUDIES OF SOLAR ACTIVE REGIONS, FLARES AND PROMINENCES AT CENTIMETER AND MILLIMETER WAVELENGTHS (ATM-7821762 A01)*; 12 MONTHS $73,000

LIU, CHUAN S, PAPADOPOULOS, K, AND ROWLAND, H; *STRONG LANGMUIR TURBULENCE IN MAGNETIZED SPACE PLASMAS (ATM-7825248 A01)*; 12 MONTHS $50,200

PITTER, RICHARD L; *MEASUREMENT OF THE CHARGE ON SNOWFLAKES (ATM-7825478 A01)*; 12 MONTHS $17,200

PITTER, RICHARD L; *MICROPHYSICS OF MIXED CLOUDS (ATM-7909150)*; 12 MONTHS $33,800

MASS, CLIFFORD F; *AN OBSERVATIONAL STUDY OF THE PUGET SOUND CONVERGENCE ZONE (ATM-7915153)*; 24 MONTHS $54,300

FALLER, ALAN J; *STUDIES OF SUB-GRID-SCALE PHENOMENA AND THE INCLUSION OF THEIR EFFECTS IN NUMERICAL PREDICTION MODELS (ATM-7924544)*; 12 MONTHS $95,200

ROSENBERG, THEODORE J, AND MATTHEWS, DAVID L; *DATA PROCESSING, ANALYSIS, AND TEST FACILITY FOR GEOPHYSICAL INVESTIGATIONS OF THE IONOSPHERE AND MAGNETOSPHERE (ATM-8002423*)*; 12 MONTHS $43,500

ROSENBERG, THEODORE J; *RIOMETER STUDIES OF PARTICLE PRECIPITATION FROM A 4-STATION CHAIN AT SUBAURORAL LATITUDES (ATM-8006496)*; 24 MONTHS $120,000

MASSACHUSETTS

ATMOSPHERIC AND ENVIRONMENTAL RESEARCH INC

FOUKAL, PETER V; *A STUDY OF THE INFLUENCE OF MAGNETIC FIELDS ON SOLAR LUMINOSITY (ATM-8004346)*; 12 MONTHS $75,700

BOSTON COLLEGE

FORBES, JEFFREY M; *TIDES IN THE MESOSPHERE AND LOWER THERMOSPHERE (ATM-7906616)*; 24 MONTHS $92,700

CAROVILLANO, ROBERT L; *COMPREHENSIVE STUDIES OF BIRKELAND CURRENTS UTILIZING THE IMS DATA BASE (ATM-8007028)*; 24 MONTHS $135,000

BOSTON UNIVERSITY

HUGHES, WILLIAM J; *MULTIPLE GEOSYNCHRONOUS SATELLITE OBSERVATIONS OF GEOMAGNETIC PULSATIONS (ATM-7911899 A01)*; 12 MONTHS $29,600

ENVIRONMENTAL RESEARCH & TECHNOLOGY INC

ROSEN, RICHARD D; *THE BEHAVIOR OF WATER VAPOR IN THE GENERAL CIRCULATION AND ITS IMPLICATIONS FOR HYDROLOGY AND CLIMATE (ATM-7716348 A02*)*; 12 MONTHS $26,000

HARVARD UNIVERSITY

DALGARNO, ALEXANDER; *AURORAL AND AIRGLOW EMISSION PROCESSES (ATM-7820971 A01)*; 12 MONTHS $44,600

LINDZEN, RICHARD S; *RESEARCH IN DYNAMIC METEOROLOGY (ATM-7823330 A01)*; 12 MONTHS $103,100

MC ELROY, MICHAEL B; *CHEMISTRY OF ATMOSPHERES (ATM-7913251 A01)*; 12 MONTHS $141,112

ANDERSON, JAMES G; *LABORATORY STUDIES OF TROPOSPHERIC AND STRATOSPHERIC CHEMISTRY: GAS PHASE KINETICS OF THE HS RADICAL (ATM-7926032)*; 12 MONTHS $64,328

HARVARD UNIVERSITY-OBSERVATORY

MAXWELL, ALAN; *SOLAR RADIO PROGRAMS AT THE HARVARD RADIO ASTRONOMY STATION (ATM-8007024)*; 12 MONTHS $60,200

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PRINN, RONALD G; *THE CHEMISTRY AND CHEMICAL EVOLUTION OF PLANETARY ATMOSPHERES (ATM-7701252 A01)*; 24 MONTHS $112,900

MOLLO-CHRISTENS, ERIK L; *DYNAMICS OF WIND WAVE GROUPS AND THEIR RELATIONSHIP TO INTERMITTENCY OF FLUXES NEAR THE WATER SURFACE (ATM-7718301 A02)*; 12 MONTHS $59,700

SANDERS, FREDERICK; *FORECASTING QUANTITY AND TYPE OF PRECIPITATION (ATM-7815942 A01)*; 12 MONTHS $95,200

EVANS, JOHN V, AND WAND, RONALD H; *UPGRADING OF MILLSTONE HILL RADAR DATA-PROCESSING-SYSTEM (ATM-7822602 A01)*; 12 MONTHS $113,800

EVANS, JOHN V, AND WAND, RONALD H; *SUPPORT OF THE MILLSTONE HILL INCOHERENT SCATTER RADAR DURING SOLAR MAXIMUM CONDITIONS (ATM-7909189 A01)*; 12 MONTHS $297,800

EVANS, JOHN V; *CONVERSION OF MILLSTONE HILL INTO A DUAL RADAR SYSTEM (ATM-7911991)*; 12 MONTHS $1,126,900

MALKUS, WILLEM V; *GEOPHYSICAL FLUID DYNAMICS (ATM-7912165)*; 24 MONTHS $79,770

EVANS, JOHN V; *RADAR STUDIES OF TRANSPORT BETWEEN THE TROPOSPHERE AND STRATOSPHERE (ATM-8000060)*; 24 MONTHS $497,400

PASSARELLI, RICHARD E, AND SANDERS, FREDERICK; *DOPPLER RADAR STUDY OF NORTHEAST WINTER STORMS (ATM-8013711)*; 12 MONTHS $188,400

WOODS HOLE OCEANOGRAPHIC INSTITUTION

PEDLOSKY, JOSEPH L; *RESEARCH IN FINITE AMPLITUDE BAROCLINIC WAVES IN THE ATMOSPHERE AND OCEANS (ATM-7921431)*; 36 MONTHS $191,700

MICHIGAN

UNIVERSITY OF MICHIGAN

ATREYA, SUSHIL K; *SIMULTANEOUS MEASUREMENTS OF HYDROGEN AND OXYGEN EXOSPHERIC TEMPERATURES (ATM-7901064 A01)*; 12 MONTHS $38,300

SHYN, TONG WHA; *MEASUREMENTS OF DIFFERENTIAL CROSS SECTION OF SECONDARY ELECTRONS EJECTED FROM ATMOSPHERIC GASES BY ELECTRON IMPACT (ATM-7901618 A01)*; 12 MONTHS $38,500

STEDMAN, DONALD H; *FURTHER STUDIES OF THE TROPOSPHERIC CHEMISTRY OF NITROGEN COMPOUNDS (ATM-7915250)*; 12 MONTHS $50,588

WARD, J F, AND WANG, CHARLES C; *OH SPECTROSCOPY AND APPLICATION OF SPECTROSCOPIC TECHNIQUES FOR OH DETECTION (ATM-7916854)*; 12 MONTHS $46,251

STEDMAN, DONALD H; *FAST OZONE MEASUREMENTS FOR THE EDDY CORRELATION DETERMINATION OF OZONE FLUX TO THE GROUND (ATM-7927264)*; 12 MONTHS $58,842

MERIWETHER, JOHN W; *EXPERIMENTAL AND THEORETICAL STUDIES OF THE EARTH'S UPPER ATMOSPHERE (ATM-8005358)*; 12 MONTHS $150,300

MINNESOTA

UNIVERSITY OF MINNESOTA

PEPIN, ROBERT O; *CONFERENCE: THE ANCIENT SUN: FOSSIL RECORD IN THE EARTH, MOON AND METEORITES (ATM-7923280)*; 6 MONTHS $5,000

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI

ARNOLD, ROY T; *STORM ELECTRICITY IN SEVERE CONVECTION STORMS (ATM-7926391)*; 24 MONTHS $46,500

MISSOURI

ST LOUIS UNIVERSITY

LIN, YEONG-JER; *SOME ASPECTS OF THE DYNAMICAL AND OBSERVATIONAL BEHAVIOR OF SEVERE LOCAL STORMS (ATM-7823138 A01)*; 12 MONTHS $44,000

UNIVERSITY OF MISSOURI, ROLLA

CARSTENS, JOHN C; *MODELING OF THE GROWTH, EVAPORATION, AND SEDIMENTATION OF CLOUD DROPS INSIDE THE UMR SIMULATION CHAMBER (ATM-7823136 A01)*; 12 MONTHS $35,300

KASSNER, JAMES L; *EXPERIMENTAL AND THEORETICAL STUDIES OF NUCLEATION PHENOMENA (ATM-7919480*)*; 12 MONTHS $80,000

ALOFS, DARRYL J; *MEASUREMENTS OF SIZE AND VOLATILITY OF NATURAL CLOUD NUCLEI IN THE SUPERSATURATION RANGE 0.01% TO 1.0% (ATM-7924326)*; 24 MONTHS $75,000

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

ROSENBERG, NORMAN J, AND VERMA, SHASHI B; *MICROCLIMATE-PLANT ARCHITECTURE INTERACTING EFFECTS ON PHOTOSYNTHESIS, EVAPOTRANSPIRATION AND WATER USE EFFICIENCY (ATM-7901017 A01)*; 12 MONTHS $27,820

NEVADA

DESERT RESEARCH INSTITUTE

HALLETT, JOHN; *FIELD AND LABORATORY STUDIES OF PRIMARY AND SECONDARY ICE CRYSTAL GROWTH (ATM-7920399)*; 12 MONTHS $163,700

KOCMOND, WARREN C; *THE THIRD INTERNATIONAL MEASUREMENT WORKSHOP ON CLOUD CONDENSATION NUCLEI AT THE DESERT RESEARCH INSTITUTE (ATM-7921558)*; 18 MONTHS $35,000

NEW HAMPSHIRE

DARTMOUTH COLLEGE

MORGAN, MILLETT G; *DISPERSION OF TRAVELING IONOSPHERIC DISTURBANCES (ATM-7916156)*; 12 MONTHS $82,700

DARTMOUTH COLLEGE-THAYER SCHOOL OF ENGINEERING

SONNERUP, BENGT U; *MAGNETOSPHERIC CURRENT SHEETS AND BOUNDARY LAYERS (ATM-7920277)*; 24 MONTHS $110,500

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

KAUFMANN, RICHARD L; *AURORAL PLASMA STABILITY (ATM-7905572 A01)*; 12 MONTHS $44,800

FISK, LENNARD A; *THE INTERACTIONS OF ENERGETIC PARTICLES WITH THE SOLAR WIND - A THEORETICAL STUDY (ATM-7908353 A01)*; 12 MONTHS $19,800

ARNOLDY, ROGER, AND MOORE, THOMAS E; *GEOSYCHRONOUS ORBIT CORRELATIVE STUDIES (ATM-7920484)*; 12 MONTHS $23,300

NEW JERSEY

PRINCETON UNIVERSITY

MELLOR, GEORGE L, KURIHARA, YOSHIO, LIPPS, FRANK B, AND ORLANSKI, I; *RESEARCH IN MICRO AND MESOSCALE GEOPHYSICAL FLUID DYNAMICS (ATM-7719955 A02)*; 12 MONTHS $53,400

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

BROOK, MARX, AND KREHBIEL, PAUL; *THUNDERSTORM ELECTRIFICATION AND PRECIPITATION STUDIES (ATM-7819960 A02)*; 12 MONTHS $112,400

RAYMOND, DAVID J; *DYNAMICS OF THUNDERSTORM GENESIS (ATM-7826999 A01)*; 12 MONTHS $35,000

UNIVERSITY OF NEW MEXICO

SWINSON, DEREK B; *COSMIC RAY ANISOTROPIES IN INTERPLANETARY SPACE AT HIGH RIGIDITIES (ATM-8011424)*; 36 MONTHS $94,900

NEW YORK

COLUMBIA UNIVERSITY

DONN, WILLIAM L; *NATURAL AND ARTIFICIAL INFRASOUND AS AN ATMOSPHERIC PROBE (ATM-7908950 A01*)*; $78,100

CORNELL UNIVERSITY

SUDAN, RAVINDRA N; *THEORETICAL STUDY OF IONOSPHERIC IRREGULARITIES AND PLASMA INSTABILITIES IN THE MAGNETOSPHERE (ATM-7826770 A01)*; 12 MONTHS $68,500

LUMLEY, JOHN L, AND WARHAFT, ZELLMAN; *ATMOSPHERIC TURBULENCE (ATM-7922006)*; 12 MONTHS $125,735

FARLEY, DONALD T; *AERONOMICAL AND METEOROLOGICAL RESEARCH AT THE JICAMARCA RADIO OBSERVATORY (ATM 8007971*)*; 12 MONTHS $136,100

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

WIESENFELD, JOHN R; *ATMOSPHERIC CHEMISTRY OF ELECTRONICALLY EXCITED OXYGEN ATOMS (ATM-7710056 A02)*; 12 MONTHS $54,866

FARLEY, DONALD T; *STUDIES OF THE EQUATORIAL IONOSPHERE AND ATMOSPHERE (ATM-7812223 A01)*; 12 MONTHS $108,500

POLYTECHNIC INSTITUTE OF NEW YORK

ARNOLD, STEPHEN; *PARTICULATE CHARACTERIZATION BY PHOTOPHORETIC SPECTROSCOPY, FLUORESCENCE AND ROTOPHOTOPHORETIC SPECTROSCOPY (ATM-8006580)*; 24 MONTHS $153,574

STATE UNIVERSITY AT ALBANY

BOSART, LANCE F; *DIAGNOSTIC AND PROGNOSTIC INVESTIGATION OF SELECTED TRANSIENT ATMOSPHERIC DISTURBANCES (ATM-7800531 A02)*; 12 MONTHS $101,000

CIPRIANO, RAMON J, AND BLANCHARD, DUNCAN C; *THE RELATIVE IMPORTANCE OF JET AND FILM DROPS IN THE PRODUCTION OF THE MARINE AEROSOL AND LUNG-DEPOSITABLE BIOSOLS (ATM-7912144*)*; 12 MONTHS $21,451

VONNEGUT, BERNARD, AND CHYLEK, PETR; *CLEAR-AIR SEEDING (ATM-7920767)*; 24 MONTHS $161,000

VONNEGUT, BERNARD; *ATMOSPHERIC ELECTRICITY (ATM-7921080)*; 12 MONTHS $82,500

MOHNEN, VOLKER A; *MICROPHYSICAL AND CHEMICAL PROCESSES IN THE TROPOSPHERE (ATM-7925435)*; 12 MONTHS $101,086

KIM, J S; *CONTINUED OPERATION OF THE AURORAL ZONE EAST-WEST MAGNETOMETER CHAIN AND IMS DATA ANALYSIS (ATM-8004240)*; 24 MONTHS $133,200

STATE UNIVERSITY AT BUFFALO

GEORGE, WILLIAM K; *ROLE OF TURBULENT BUOYANT PLUMES IN ATMOSPHERIC PROCESSES (ATM-7908442 A01)*; 12 MONTHS $44,839

NORTH CAROLINA

DUKE UNIVERSITY

KNOERR, KENNETH R, AND SHAUGHNESSY, EDWARD J; *RELATING FLOW STRUCTURE WITHIN FOREST CANOPIES TO TURBULENT EXCHANGE WITH THE ATMOSPHERE (ATM-7925944)*; 12 MONTHS $99,500

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

ARYA, S P S; *PLANETARY BOUNDARY LAYER MODELING AND PARAMETERIZATION (ATM-7721785 A01)*; 12 MONTHS $57,600

JANOWITZ, GERALD S; *THE FLOW OF STABLY STRATIFIED FLUIDS OVER OBSTACLES (ATM-7814408)*; 24 MONTHS $70,900

RISLEY, JOHN S; *ELECTRON EMISSION CROSS SECTIONS OF ATMOSPHERIC GASES FOR THE VACUUM ULTRAVIOLET LIGHT STANDARD PROJECT (ATM-7933810)*; 12 MONTHS $65,900

OHIO

CASE WESTERN RESERVE UNIVERSITY

MATHEWS, JOHN D; *RESEARCH IN IONOSPHERIC PHYSICS (ATM-7918379)*; 12 MONTHS $68,400

FRYE, GLENN M; *SOLAR NEUTRONS (ATM-8003223)*; 9 MONTHS $85,600

OHIO STATE UNIVERSITY

SELIGA, THOMAS A; *RAINFALL STUDIES USING THE DIFFERENTIAL REFLECTIVITY RADAR TECHNIQUES (ATM-8003376*)*; 12 MONTHS $80,572

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

MCCARTHY, JOHN, AND BLUESTEIN, HOWARD B; *THE INITIATION AND EVOLUTION OF SEVERE CONVECTIVE STORMS (ATM-7812401 A03)*; 12 MONTHS $48,800

FOWLER, RICHARD G; *THE ELECTRICAL PROPAGATION PROCESSES IN LIGHTNING DISCHARGES (ATM-7918510)*; 12 MONTHS $28,500

BLUESTEIN, HOWARD B; *A STUDY OF THE RELATIONSHIP BETWEEN SEVERE THUNDERSTORM ACTIVITY AND DEFORMATION AT THE DRYLINE/FRONT INTERSECTION (ATM-7923649)*; 12 MONTHS $22,000

WILKINS, EUGENE M, AND SASAKI, YOSHI K; *DYNAMICS OF SIMULATED TORNADOES (ATM-8002102)*; 12 MONTHS $41,800

OREGON

OREGON GRADUATE CENTER

RASMUSSEN, REINHOLD A; *EFFECT OF DESERT SURFACES ON CERTAIN ATMOSPHERIC TRACE GASES (ATM-7806623 A02)*; 6 MONTHS $15,400

OREGON STATE UNIVERSITY

DEARDORFF, JAMES W; *LABORATORY INVESTIGATIONS OF MIXED LAYER TURBULENCE AND ENTRAINMENT (ATM-7724507 A02)*; 12 MONTHS $119,000

MAHRT, LARRY J; *THE NOCTURNAL BOUNDARY LAYER, ASSOCIATED LOW LEVEL JET AND INTERACTIONS WITH MESOSCALE CIRCULATION (ATM-7908308 A01)*; 20 MONTHS $50,700

MURPHY, ALLAN H, AND KATZ, RICHARD W; *DYNAMIC DECISION-MAKING MODELS FOR ASSESSING THE VALUE OF WEATHER AND CLIMATE INFORMATION (ATM-8004680*)*; 12 MONTHS $40,000

PORTLAND STATE UNIVERSITY

HARD, THOMAS M, AND O BRIEN, ROBERT J; *ATMOSPHERIC HYDROXYL DETERMINATION IN THE PRESENCE OF INTERFERENCES (ATM-8003312)*; 12 MONTHS $48,688

PENNSYLVANIA

DREXEL UNIVERSITY

BANDY, ALAN R, KRITZ, MARK A, AND KREITZBERG, CARL W; *DISTRIBUTION AND EXCHANGE OF TRACE SULFUR GASES IN THE UPPER TROPOSPHERE AND LOWER STRATOSPHERE (ATM-8020161)*; 24 MONTHS $293,315

FRANKLIN INSTITUTE

MULLAN, DERMOTT J; *COSMIC RAY ACCELERATION IN SUN-EARTH ENVIRONMENTS (ATM-7820936 A01)*; 24 MONTHS $60,800

POMERANTZ, MARTIN A, AND DUGGAL, SHAKTI P; *THE SUN AND COSMIC RAYS (ATM-8005868)*; 12 MONTHS $140,000

LEHIGH UNIVERSITY

MACPHERSON, ALISTER K, AND HILTON, PETER D; *AN EXAMINATION OF FINITE ELEMENTS FOR FRONTOGENESIS STUDIES (ATM-8006937)*; 12 MONTHS $78,900

PENNSYLVANIA STATE UNIVERSITY

ANTHES, RICHARD A, AND DUTTON, JOHN A; *THE NONLINEAR DYNAMICS OF MOIST CONVECTION AND ITS EFFECTS ON EXTRATROPICAL CIRCULATION SYSTEMS (ATM-7802698 A02)*; 12 MONTHS $85,700

FERRARO, ANTHONY J, AND LEE, H S; *D-REGION CHEMISTRY AND DYNAMICS (ATM-7819964 A01)*; 12 MONTHS $52,000

DUTTON, JOHN A; *THERMALLY FORCED ATMOSPHERIC FLOW (ATM-7908354)*; 12 MONTHS $57,400

ALBRECHT, BRUCE A; *AN OBSERVATIONAL STUDY OF STRATOCUMULUS CONVECTION (ATM 7915254)*; 24 MONTHS $55,700

YORK, THOMAS M, AND MITCHELL, JOHN D; *ANALYSIS AND DEVELOPMENT OF ROCKET BORNE PROBES FOR STUDY OF MIDDLE ATMOSPHERE COMPOSITION AND ELECTRODYNAMICS (ATM-8004215)*; 12 MONTHS $76,000

KLEVANS, EDWARD H, AND CARPENTER, L A; *COMPARISON OF MID-LATITUDE SPREAD F THEORY WITH MEASUREMENTS (ATM-8005368)*; 12 MONTHS $48,500

UNIVERSITY OF PITTSBURGH

ZIPF, EDWARD C; *TIME-OF-FLIGHT AND OPTICAL STUDIES OF THE ELECTRON-IMPACT EXCITATION AND DISSOCIATION OF MOLECULAR GASES OF AERONOMIC INTEREST (ATM-7820538 A01)*; 12 MONTHS $60,200

BIONDI, MANFRED A, AND SIPLER, DWIGHT; *AIRGLOW AND AURORAL STUDIES OF THE EARTH'S IONOSPHERE (ATM-7827598 A01)*; 12 MONTHS $78,500

ZIPF, EDWARD C; *AN INVESTIGATION OF THE PRODUCTION, RELAXATION AND DISSOCIATIVE RECOMBINATION OF VIBRATIONALLY EXCITED IONS OF AERONOMIC IMPORTANCE (ATM-7906920 A01)*; 12 MONTHS $49,700

PUERTO RICO

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS

HERRERO, FEDERICO A; *NIGHTTIME THERMOSPHERE DYNAMICS AT F-REGION HEIGHTS: 6300A AIRGLOW/INCOHERENT SCATTER RADAR STUDIES (ATM-8009218)*; 12 MONTHS $46,600

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

DUCE, ROBERT A, AND BUTLER, ERIC L; *METHYL IODIDE AND THE ATMOSPHERIC IODINE CYCLE (ATM-7816516 A01)*; 12 MONTHS $36,000

DUCE, ROBERT A, AND BUTLER, ERIC L; *METHYL IODIDE AND THE ATMOSPHERIC IODINE CYCLE (ATM-7816516 A02)*; 9 MONTHS $5,400

SOUTH CAROLINA

CLEMSON UNIVERSITY

SILL, BEN L, AND FISHER, JOHN S; *DEVELOPMENT OF A NEW VAPOR BUDGET TECHNIQUE FOR MEASUREMENT OF EVAPORATION (ATM-7919525)*; 12 MONTHS $68,800

SOUTH DAKOTA

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

SMITH, PAUL L, HEYMSFIELD, ANDREW J, AND NELSON, STEPHAN P; *DIRECT OBSERVATIONS OF THE INTERIOR CHARACTERISTICS OF OKLAHOMA THUNDERSTORMS DURING SESAME 79 (ATM-7827018 A01)*; 12 MONTHS $63,000

ORVILLE, HAROLD D; *NUMERICAL MODELING STUDIES OF CONVECTIVE STORMS (ATM-7916147)*; 12 MONTHS $142,900

SMITH, PAUL L, HEYMSFIELD, ANDREW J, AND MUSIL, DENNIS J; *INVESTIGATION OF THE VALIDITY OF THE CONCEPTUAL MODEL UNDERLYING GROSSVERSUCH IV (ATM-8007446)*; 12 MONTHS $19,600

TEXAS

RICE UNIVERSITY

STEBBINGS, RONALD F; *LABORATORY INVESTIGATION OF ATMOSPHERIC COLLISION PROCESSES (ATM-7723808 A02)*; 12 MONTHS $73,000

DESSLER, ALEXANDER J; *LIGHTNING INDUCED INFRASONIC PULSES: THEORY ND ANALYSIS (ATM-7820148 A01)*; 12 MONTHS $27,600

FEW, . .THUR A; *AN INVESTIGATION OF RELATIONSHIPS BETWEEN LIGHTNING GEOMETRY AND THUNDERSTORM PROPERTIES (ATM-7821764 A01)*; 12 MONTHS $79,000

GORDON, WILLIAM E; *IONOSPHERIC MODIFICATION EXPERIMENTS AT ARECIBO (ATM-7909088 A01)*; 12 MONTHS $67,800

WOLF, RICHARD A, DESSLER, ALEXANDER J, HAREL, MOSHE, AND SPIRO, ROBERT W; *THEORETICAL INVESTIGATION OF MAGNETOSPHERIC CONVECTION (ATM-7920157)*; 12 MONTHS $90,000

CHAMBERLAIN, JOSEPH W; *THEORETICAL RESEARCH ON PLANETARY ATMOSPHERES (ATM-8006530)*; 12 MONTHS $75,300

SOUTHWEST RESEARCH INSTITUTE

BARFIELD, J N; *SUBSTORM-ASSOCIATED BIRKELAND CURRENTS UTILIZING THE IMS DATA BASE (ATM-8017892)*; 24 MONTHS $75,100

UNIV OF TEXAS AT DALLAS

TINSLEY, BRIAN A; *THEORETICAL AND OBSERVATIONAL STUDIES OF NEUTRAL ATOM PRECIPITATION (ATM-7913211 A01)*; 12 MONTHS $84,900

KLUMPAR, DAVID M, HEIKKILA, WALTER J, AND WINNINGHAM, J D; *MAGNETOSPHERE-IONOSPHERE COUPLING STUDIES USING THE ISIS POLAR ORBITING SATELLITES (ATM-8002117)*; 12 MONTHS $43,100

MCCLURE, JOHN P, AND HANSON, WILLIAM B; *HIGH RESOLUTION RADAR AND ION TRAP STUDIES ON IONOSPHERIC IRREGULARITIES (ATM-8007560)*; 12 MONTHS $63,700

UTAH

UNIVERSITY OF UTAH

LIOU, KUO-NAN; *LIGHT SCATTERING AND RADIATIVE TRANSFER BY ICE CLOUDS: APPLICATIONS TO CIRRUS (ATM-7826259 A01)*; 12 MONTHS $83,900

PAEGLE, JULIA N; *NON-LINEAR STATISTICAL FORECAST OF 500 MB HEIGHTS (ATM-7910554)*; 24 MONTHS $37,800

FUKUTA, NORIHIKO; *LABORATORY STUDIES OF ICE CRYSTALS GROWTH KINETICS (ATM-8004108)*; 12 MONTHS $75,900

UTAH STATE UNIVERSITY

STILES, GARDINER S, AND DOUPNIK, JOE R; *DIGITAL IONOSONDE STUDIES OF THE IONOSPHERE AT SIPLE STATION, ANTARCTICA, AND ROBERVAL, QUEBEC, CANADA (DPP-7722170 A03*)*; 12 MONTHS $50,000

ST.-MAURICE, J.-P.; *STUDY ON ION DYNAMICS AND RELATED EFFECTS AT MIDDLE AND HIGH LATITUDES (ATM-7913748)*; 24 MONTHS $89,100

TORR, DOUGLAS G, AND TORR, MARSHA R; *THEORETICAL STUDIES OF THERMOSPHERIC COMPOSITION, ENERGETICS AND DYNAMICS (ATM-8005088)*; 12 MONTHS $49,000

TORR, DOUGLAS G; *A WIDEBAND INTERFEROMETER SPECTROMETER FOR IMAGING DAYGLOW (ATM-8020540*)*; 12 MONTHS $70,231

VIRGINIA

UNIVERSITY OF VIRGINIA

PIELKE, ROGER A; *A STUDY OF MESOSCALE ATMOSPHERIC PROCESSES (ATM-7821763 A01)*; 12 MONTHS $126,600

FRANK, WILLIAM M; *THE EFFECTS OF TROPICAL CYCLONES UPON REGIONAL SCALE CIRCULATIONS (ATM-7905677)*; 24 MONTHS $43,400

WASHINGTON

BATTELLE MEMORIAL INSTITUTE-BATTELLE NORTHWEST LABORATORIES

SMITH, LEROI L, AND KLECKNER, EDWARD W; *A PHOTOMETRIC STUDY OF THE MID-LATITUDE AURORAL REGION DURING THE 'IMS' (ATM-7812313 A01)*; 12 MONTHS $102,000

MICHALSKY, J J; *SIMULTANEOUS PHOTOMETRIC AND POLARIMETRIC STUDIES OF ICE-CRYSTAL CLOUDS (ATM-7919447)*; 18 MONTHS $41,300

EKSTROM, PHILIP A, AND DAVIS, KARL C; *DEVELOPMENT OF ADVANCED WIDEBAND DIGITAL AUTOCORRELATOR (ATM-8010843)*; 12 MONTHS $78,660

UNIVERSITY OF WASHINGTON

HOBBS, PETER V; *STUDIES OF EXTRATROPICAL CYCLONIC STORMS - THE CYCLES PROJECT (ATM-7701344 A03)*; 12 MONTHS $223,900

HOBBS, PETER V; *AIRBORNE CALIBRATION MEASUREMENTS OF DRY ICE SEEDING TO ENHANCE PRECIPITATION (ATM-7900948 A01)*; 12 MONTHS $70,500

BAKER, MARCIA B; *COLLABORATIVE STUDIES OF THE INFLUENCE OF INHOMOGENEOUS MIXING ON THE EVOLUTION OF DROPLET SPECTRA AND RAINDROP PRODUCTION IN CLOUDS (ATM-7911147)*; 12 MONTHS $37,200

BUSINGER, JOOST A, AND FRIEHE, CARL A; *CONTINUED ANALYSIS OF EXPERIMENTS AT THE BOULDER ATMOSPHERIC OBSERVATORY (BAO) (ATM-7926397)*; 12 MONTHS $61,400

HOLTON, JAMES R; *DYNAMICS OF LARGE SCALE ATMOSPHERIC CIRCULATIONS (ATM-7926487)*; 12 MONTHS $75,600

PARKS, GEORGE K, AND MAUK, BARRY H; *AURORAL X-RAY IMAGING (ATM-8002460)*; 12 MONTHS $122,900

WASHINGTON STATE UNIVERSITY

CRONN, DAGMAR R; *ANALYSIS OF ATMOSPHERIC HYDROCARBONS USING PHOTOIONIZATION DETECTION (ATM-7921996)*; 12 MONTHS $46,135

WISCONSIN

UNIVERSITY OF WISCONSIN SYSTEM OFFICE

HORN, LYLE H; *AVAILABLE POTENTIAL ENERGY IN THE EARTH'S CYCLOGENETIC REGIONS DURING DIFFERENT WEATHER REGIMES (ATM-7918761)*; 12 MONTHS $53,100

UNIVERSITY OF WISCONSIN-MADISON

ROESLER, FRED L; *HIGH RESOLUTION SPECTROSCOPIC STUDIES IN AERONOMY (ATM-7720371 A03)*; $7,200

JOHNSON, DONALD R; *DIAGNOSTICS OF OBSERVED AND NUMERICALLY SIMULATED EXTRATROPICAL CYCLONES (ATM-7722976 A02)*; 12 MONTHS $209,300

STEARNS, CHARLES R, AND LETTAU, HEINZ H; *EXPERIMENTS IN SMALL SCALE SURFACE MODIFICATION (ATM-7808437 A01)*; 12 MONTHS $45,000

HOUGHTON, DAVID D, AND HERMAN, GERALD F; *A REMOTE JOB ENTRY TERMINAL PROCESSOR (ATM-7818095 A01)*; 12 MONTHS $27,700

JOHNSON, DONALD R; *DIAGNOSTICS OF THE HEAT SOURCES AND SINKS OF THE ASIATIC MONSOON AND THE THERMALLY FORCED PLANETARY SCALE RESPONSE (ATM-7822384 A01*)*; 12 MONTHS $54,100

UNIVERSITY OF WISCONSIN-MILWAUKEE

SIKDAR, DHIRENDRA N; *ON SEVERE STORM PHENOMENOLOGY AND ENERGETICS FROM SATELLITE IMAGERY (ATM-7724842 A02)*; 12 MONTHS $64,400

WYOMING

UNIVERSITY OF WYOMING

VALI, GABOR; *CLOUD PHYSICS STUDIES (ATM-7825286 A01)*; 6 MONTHS $45,900

BOYER, DON L; *ROTATING STRATIFIED FLOW OVER TOPOGRAPHIC FEATURES (ATM-7905933)*; 12 MONTHS $44,000

EARTH SCIENCE

ALASKA

UNIVERSITY OF ALASKA-FAIRBANKS-GEOPHYSICAL INSTITUTE

STONE, DAVID B; *STUDIES ON PALEOMAGNETISM AND THE GEOLOGIC DEVELOPMENT OF ALASKA (EAR-7800817 A01)*; 12 MONTHS $55,000

HARRISON, WILLIAM D; *COLLABORATIVE RESEARCH ON SURGES OF VARIEGATED GLACIER (EAR-7919530)*; 12 MONTHS $40,904

TURNER, DONALD L, TRIPLEHORN, DON M, AND SWANSON, SAMUEL E; *RADIOMETRIC DATING OF VOLCANIC ASH PARTINGS IN COALS (EAR-7922041)*; 12 MONTHS $49,805

UNIVERSITY OF ALASKA-FAIRBANKS

ALLISON, CAROL W, AND YOUNG, GRANT M; *PALEONTOLOGY, STRATIGRAPHY AND DEPOSITIONAL ENVIRONMENTS OF LATE PROTEROZOIC INTO EARLY CAMBRIAN ROCKS OF THE TATONDUK AREA, ALASKA (EAR-7903926 A01)*; 12 MONTHS $53,600

ARIZONA

ARIZONA STATE UNIVERSITY

HOLLOWAY, JOHN R; *VOLATILE-SILICATE INTERACTIONS AT HIGH PRESSURES AND TEMPERATURES WITH APPLICATION TO IGNEOUS PETROLOGY (EAR-7809954 A02)*; 12 MONTHS $49,700

NAVROTSKY, ALEXANDRA; *THERMOCHEMISTRY OF OXIDES AND CHALCOGENIDES AT HIGH TEMPERATURE (DMR-7810038 A03*)*; 12 MONTHS $18,000

CRONIN, JOHN R, AND YUEN, GEORGE U; *ORGANIC GEOCHEMICAL STUDY OF CARBONACEOUS METEORITES (EAR-7919967)*; 12 MONTHS $8,000

BUSECK, PETER R; *SOLID STATE GEOCHEMISTRY: HIGH RESOLUTION TRANSMISSION ELECTRON MICROSCOPY OF MINERALS (EAR-7926375)*; 12 MONTHS $110,000

VEBLEN, DAVID R; *MICROSTRUCTURES AND REACTIONS IN ROCK-FORMING SILICATES (EAR-7927094)*; 12 MONTHS $48,900

KNAUTH, L P; *SECULAR VARIATIONS IN THE O18/O16 RATIOS OF CHERTS AND CARBONATES (EAR-8001158)*; 12 MONTHS $17,063

UNIVERSITY OF ARIZONA

BEANE, RICHARD E; *TIMING AMONG HYDROTHERMAL FLUIDS OF DIFFERENT TEMPERATURES AND SALINITIES FROM THE SANTA RITA PORPHYRY COPPER DEPOSIT (EAR-7713642 A01*)*; 12 MONTHS $15,200

DRAKE, MICHAEL J; *EXPERIMENTAL DETERMINATION OF TRACE ELEMENT PARTITION COEFFICIENTS AT HIGH WATER PRESSURES (EAR-7801782 A02)*; 12 MONTHS $45,900

DAMON, PAUL E; *CORRELATION AND CHRONOLOGY OF ORE DEPOSITS AND VOLCANIC ROCKS (EAR-7811535 A02)*; 12 MONTHS $70,000

LOOMIS, TIMOTHY P; *CRYSTAL GROWTH IN IGNEOUS AND METAMORPHIC ROCKS (EAR-7904108 A01)*; 12 MONTHS $35,800

BUTLER, ROBERT F; *ARCHAEOMAGNETIC STUDY OF GEOMAGNETIC SECULAR VARIATION (EAR-7919726)*; 18 MONTHS $46,400

LOOMIS, TIMOTHY P, AND GANGULY, JIBAMITRA; *EXPERIMENTAL DETERMINATION OF DIFFUSION COEFFICIENTS IN ALUMINOUS GARNETS (EAR-7919732)*; 12 MONTHS $46,400

NORTON, DENIS L; *QUANTITATIVE MODELS OF ORE DEPOSITION IN HYDROTHERMAL SYSTEMS (EAR-7919765*)*; 12 MONTHS $45,000

DICKINSON, WILLIAM R; *DEPOSITIONAL SYSTEMS AND SEDIMENTARY PETROLOGY OF ANTLER FLYSCH AND RELATED CLASTICS (EAR-7922848)*; 12 MONTHS $23,200

HAYNES, CALEB V; *LATE QUATERNARY GEOCHRONOLOGY (EAR-7926362*)*; 12 MONTHS $40,000

DICKINSON, WILLIAM R; *CLASTIC DETRITUS IN CRETACEOUS-TERTIARY SEDIMENTARY STRATA OF CENTRAL UTAH FORELAND BASIN (EAR-7926379)*; 12 MONTHS $44,000

BULL, WILLIAM B, AND SBAR, MARC L; *GEOMORPHIC AND SEISMIC STUDIES OF QUATERNARY TECTONISM IN THE ARIZONA SEISMIC BELT (EAR-8008212)*; 12 MONTHS $45,000

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

SILVER, LEON T; *FIELD AND ISOTOPIC STUDIES OF THE OLDER GEOLOGIC HISTORY OF THE SOUTHWESTERN MARGIN OF NORTH AMERICA (EAR-7923153 A04)*; 12 MONTHS $130,400

SILVER, LEON T; *INVESTIGATIONS OF THE PORPHYRY COPPER METALLOGENIC PROVINCE OF THE SOUTHWESTERN UNITED STATES (EAR-7723507 A01*)*; 12 MONTHS $72,800

AHRENS, THOMAS J; *SHOCK TEMPERATURES IN GEOLOGICAL MATERIALS (EAR-7812942 A01)*; 12 MONTHS $65,000

EPSTEIN, SAMUEL; *OXYGEN, HYDROGEN, CARBON, AND SILICON ISOTOPE STUDIES OF NATURALLY OCCURRING MATERIALS (EAR-7816873 A01)*; 12 MONTHS $138,600

TAYLOR, HUGH P; *OXYGEN AND HYDROGEN ISOTOPE STUDIES OF IGNEOUS ROCKS AND ASSOCIATED HYDROTHERMAL METAMORPHISM (EAR-7816874 A01)*; 12 MONTHS $101,100

LOWENSTAM, HEINZ A; *A STUDY OF THE BIOCHEMICAL EVOLUTION OF THE CEPHALOPODS, BASED ON THE INORGANIC AND SOME OF THE ORGANIC CONSTITUENTS OF ALL THEIR HARD PARTS (EAR-7905730 A01)*; 12 MONTHS $49,700

AHRENS, THOMAS J; *OPTICAL MULTICHANNEL ANALYZER FOR MEASURING SHOCK TEMPERATURES OF MINERALS (EAR-7919692)*; 6 MONTHS $50,000

AHRENS, THOMAS J; *BOREHOLE MEASUREMENTS OF IN-SITU STRESS AND TILT (EAR-7919740)*; 12 MONTHS $60,600

ALBEE, ARDEN L; *CHEMICAL EQUILIBRIUM IN COEXISTING PHASES OF METAMORPHIC ROCKS (EAR-7919786)*; 12 MONTHS $57,000

ROSSMAN, GEORGE R, AND SILVER, LEON T; *EXAMINATION OF THE ROLE OF URANIUM AND WATER IN ZIRCON IN RELATION TO THE METAMICTIZATION PROCESS (EAR-7919937)*; 24 MONTHS $125,300

WASSERBURG, GERALD J; *40AR-39AR DATING OF QUATERNARY BASALTS AND XENOLITHS (EAR-7919997)*; 12 MONTHS $39,500

BURNETT, DONALD S; *TRACE ELEMENT RADIOGRAPHY, WITH EMPHASIS ON METEORITE STUDIES (EAR-7920091)*; 12 MONTHS $58,900

ROSSMAN, GEORGE R; *GRAPHICS COMPUTING SYSTEM FOR MINERALOGICAL RESEARCH (EAR-7923604)*; 12 MONTHS $24,500

SALEEBY, JASON B; *GEOCHRONOLOGICAL INVESTIGATION OF OPHIOLITIC AND ASSOCIATED VOLCANO-PLUTONIC ARC ASSEMBLAGES OF THE WESTERN SIERRA NEVADA--KLAMATH MOUNTAIN REGION, CALIFORNIA (EAR-7925998)*; 12 MONTHS $45,100

AHRENS, THOMAS J; *SHOCK-WAVE MEASUREMENTS ON CANDIDATE CORE COMPONENTS (EAR-7926384)*; 12 MONTHS $65,000

KAMB, BARCLAY; *MEASUREMENT OF THE RESPONSE OF A NON-SURGING GLACIER TO PERTURBATION IN ICE THICKNESS (EAR-8008319)*; 12 MONTHS $15,000

TAYLOR, HUGH P; *SILICIC VOLCANISM: ASH-FLOW TUFFS, CALDERAS, AND ASSOCIATED HYDROTHERMAL SYSTEMS (EAR-8012918)*; 12 MONTHS $5,000

ANDERSON, DONALD L; *STUDIES OF THE SEISMIC SHEAR PHASE SS (EAR-8025335)*; 12 MONTHS $25,292

HAGER, BRADFORD H; *STUDY OF THE DYNAMICS OF SUBDUCTED SLABS (EAR-8025643)*; 15 MONTHS $25,700

LOS ANGELES COUNTY MUSEUM OF NATURAL HISTORY

BARNES, LAWRENCE G, SWIFT, CAMM C, MITCHELL, EDWARD D, AND WELTON, BRUCE J; *PALEOECOLOGY OF THE SHARKTOOTH HILL BONEBED (EAR-7916508*)*; 12 MONTHS $44,300

ROCKWELL INTERNATIONAL CORPORATION

TITTMANN, BERNHARD R; *INTERNAL FRICTION AND MODULUS MEASUREMENTS IN LUNAR ROCKS (EAR-7906709 A02)*; 12 MONTHS $43,600

SAN DIEGO STATE UNIVERSITY

MILLER, RICHARD H; *BIOSTRATIGRAPHY AND PALEOENVIRONMENTS OF THE MOUNTAIN SPRINGS FORMATION (ORDOVICIAN-DEVONIAN) OF THE SOUTHERN GREAT BASIN (EAR-8008204)*; 24 MONTHS $73,300

JIRACEK, GEORGE R; *MAGNETOTELLURIC INVESTIGATIONS OVER SUSPECTED MAGMA BODIES IN THE COCORP STUDY AREA, NEW MEXICO (EAR-8021517)*; 10 MONTHS $13,905

SRI INTERNATIONAL

DUDA, RICHARD O; *A WORKSHOP ON THE USE OF FORMAL MODELS FOR CHARACTERIZATION OF ORE DEPOSITS, MENLO PARK, CALIFORNIA, OCTOBER 27-29, 1980 (EAR-8008703*)*; 6 MONTHS $2,602

STANFORD UNIVERSITY

GELLER, ROBERT J; *INVESTIGATION OF THE Q OF NORMAL MODES AND THE EARTH'S LATERAL HETEROGENEITY (EAR-7803653 A01)*; 12 MONTHS $30,000

KOVACH, ROBERT L; *A STUDY OF THE SHEAR WAVE VELOCITY STRUCTURE IN CENTRAL CALIFORNIA FROM THE INVERSION OF SURFACE WAVE GROUP AND PHASE VELOCITIES (EAR-7821817 A01)*; 12 MONTHS $40,000

NUR, AMOS M; *SOLUTION TRANSFER AND STYLOLITES IN POROUS ROCKS (EAR-7822745 A01)*; 20 MONTHS $49,520

THOMPSON, GEORGE A, AND CLAERBOUT, JON F; *WAVE EQUATION MIGRATION AND GEOLOGIC INTERPRETATION OF COCORP'S DEEP CRUSTAL SEISMIC REFLECTION PROFILES (EAR-7822762 A01)*; 12 MONTHS $50,000

LIOU, J G; *SYNTHESIS, STABILITIES AND ELEMENT DISTRIBUTION OF MINERALS UNDER HYDROTHERMAL CONDITIONS (EAR-7909138 A01)*; 12 MONTHS $50,300

MCWILLIAMS, MICHAEL O; *PALEOMAGNETIC STUDY OF RADIOCARBON DATED HAWAIIAN LAVAS (EAR-791[illegible]132)*; 12 MONTHS $49,900

COX, ALLAN V; *PALEOMAGNETIC STUDIES OF ANCIENT PLATE VELOCITIES (EAR-7911136)*; 12 MONTHS $42,000

EINAUDI, MARCO T; *AN INTEGRATED STUDY OF THE GENESIS OF TUNGSTEN, COPPER, AND ZINC-BEARING SKARNS IN THE WESTERN UNITED STATES (EAR-7919588*)*; 12 MONTHS $35,400

COX, ALLAN V; *PALEOMAGNETIC INVESTIGATION OF CORDILLERAN TECTONICS (EAR-7919715*)*; 24 MONTHS $80,000

HALLET, BERNARD; *THE MECHANICS OF GLACIAL EROSION (EAR-7919982)*; 12 MONTHS $47,237

GELLER, ROBERT J, AND SLEEP, NORMAN H; *SEISMOLOGICAL STUDIES OF TECTONIC PROCESSES (EAR-7926368)*; 12 MONTHS $40,000

SLEEP, NORMAN H; *GEODYNAMIC PROCESSES AT PLATE BOUNDARIES (EAR-8001076)*; 8 MONTHS $18,000

SLEEP, NORMAN H; *GEODYNAMIC PROCESSES AT PLATE BOUNDARIES (EAR-8001076 A01*)*; 24 MONTHS $65,000

VAN ANDEL, TJEERD H; *ALLUVIATION HISTORY AND HUMAN LAND USE IN THE PREHISTORY AND HISTORY OF THE SOUTHERN ARGOLID, GREECE (EAR-8006306)*; 12 MONTHS $20,600

LARUE, DAVID K; *GEOLOGIC STUDIES OF THE MIDDLE PRECAMBRIAN ROCKS OF THE FLORENCE-DICKINSON-IRON-MENOMINEE COUNTIES, MICHIGAN & WISCONSIN (EAR-8008209)*; 12 MONTHS $23,996

LIOU, J G; *PETROLOGY, METAMORPHISM AND TECTONICS OF MELANGE TERRANES IN THE FRANCISCAN COMPLEX, CALIFORNIA (EAR-8008587)*; 12 MONTHS $35,000

UNIVERSITY OF CALIFORNIA, BERKELEY

HELGESON, HAROLD C; *THEORETICAL INVESTIGATION OF GEOCHEMICAL PROCESSES (EAR-7[illegible]492 A02)*; 12 MONTHS $103,900

CARMICHAEL, IAN S; *STUDIES IN IGNEOUS PETROLOGY (EAR-7803641 A03)*; 12 MONTHS $67,500

BUKOWINSKI, MARK S T; *QUANTUM MECHANICAL STUDIES OF MANTLE MATERIALS (EAR-7812943 A01)*; 12 MONTHS $51,600

ALVAREZ, WALTER; *PALEOMAGNETIC AND TECTONIC STUDIES IN THE NORTHERN APENNINES, ITALY (EAR-7911527)*; 24 MONTHS $69,900

BRIMHALL, GEORGE H; *GEOCHEMICAL MECHANISMS OF ELEMENT REDISTRIBUTION IN THE HYDROTHERMAL PORPHYRY COPPER ENVIRONMENT (EAR-7911542)*; 24 MONTHS $76,900

WENK, HANS R; *STRUCTURAL AND MICROSTRUCTURAL CHANGES IN THE PLAGIOCLASE SERIES (EAR-7919690)*; 12 MONTHS $19,400

BOLT, BRUCE A; *FINITE ELEMENT STUDIES OF SEISMIC WAVE PROPAGATION (EAR-7919694)*; 24 MONTHS $42,300

BUKOWINSKI, MARK S T; *THEORETICAL STUDIES OF BONDING IN OXIDES AND COMPOUNDS OF THE ALKALI METALS (EAR-8008214)*; 12 MONTHS $59,600

UNIVERSITY OF CALIFORNIA, DAVIS

TAYLOR, BRUCE E; *LIGHT-STABLE ISOTOPE STUDY OF HYDROTHERMAL FLUIDS AND ORE FORMATION IN THE MOTHER LODE AND NORTHERN SIERRA NEVADA GOLD DISTRICTS (EAR-7913238*)*; 24 MONTHS $60,800

VEROSUB, KENNETH L; *NEW APPLICATIONS OF PALEOMAGNETISM TO THE STUDY OF ACTIVE FAULTS (EAR-7913239)*; 12 MONTHS $55,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

ERNST, WALLACE G; *INTEGRATED EXPERIMENTAL PHASE EQUILIBRIUM, FIELD MICROPROBE INVESTIGATION OF LOW- AND MEDIUM-GRADE METAMORPHISM IN CALIFORNIA AND THE ALPS (EAR-7710449 A02)*; 12 MONTHS $62,300

NELSON, CLEMENS A; *LATE PRECAMBRIAN-EARLY CAMBRIAN TRANSITION, WHITE-INYO RANGE CALIFORNIA (EAR-7713074 A01)*; 12 MONTHS $13,900

CHRISTIE, JOHN M; *EXPERIMENTAL STUDIES OF THE FLOW MECHANISMS OF CRUSTAL ROCKS (EAR-7723183 A01)*; 12 MONTHS $50,000

WASSON, JOHN T; *CHEMICAL FRACTIONATION IN THE SOLAR NEBULA AND THE FORMATION LOCATIONS OF CHONDRITIC METEORITES (EAR-7803336 A02)*; 12 MONTHS $43,100

KNOPOFF, LEON; *SEISMIC RADIATION FROM DYNAMICAL EARTHQUAKE MODELS (EAR-7805190 A01)*; 12 MONTHS $55,000

DEPAOLO, DONALD J; *STUDIES OF MAGMA SOURCES AND THE ORIGIN OF CONTINENTAL CRUST USING ND AND SR ISOTOPES (EAR-7812966 A01)*; $29,400

BOETTCHER, ARTHUR L; *GEOCHEMICAL AND HIGH-PRESSURE STUDIES OF THE CRUST-MANTLE SYSTEM OF THE EARTH AND OTHER TERRESTRIAL PLANETS (EAR-7816413 A01)*; 12 MONTHS $129,700

KNOPOFF, LEON; *SURFACE WAVE AND FREE MODE ANALYSIS (EAR-7823841 A01)*; 12 MONTHS $53,000

HALL, CLARENCE A; *NORTH PYRENEAN FAULT, SOUTHERN FRANCE (EAR-7911176)*; 12 MONTHS $37,245

ANDERSON, ORSON L; *THE EXPERIMENTAL EQUATION OF STATE AT HIGH PRESSURE AND HIGH TEMPERATURE (EAR-7911218)*; 12 MONTHS $45,000

SCHOPF, J WILLIAM; *PRECAMBRIAN PALEOBIOLOGY (DEB-7921777*)*; 12 MONTHS $20,000

ERNST, WALLACE G; *EXPERIMENTAL STUDIES OF ULTRAMAFIC AND MAFIC PHASE EQUILIBRIA IN SYNTHETIC AND NATURAL SYSTEMS TO 10 KB UNDER CONTROLLED LABORATORY CONDITIONS (EAR-7923815)*; 12 MONTHS $37,600

DENIRO, MICHAEL J; *STABLE ISOTOPE BIOGEOCHEMISTRY OF THE METHANE-GENERATING BACTERIA (EAR-7926219)*; 24 MONTHS $26,900

OERTEL, GERHARD; *PREFERRED ORIENTATION AND FLOW IN MICACEOUS ROCKS (EAR-8007444)*; 12 MONTHS $47,500

ANDERSON, ORSON L; *MEASURING THE DIFFERENCE BETWEEN THE ACOUSTIC GRUNEISEN PARAMETER AND THE THERMAL GRUEISEN PARAMETER (EAR-8008272)*; 12 MONTHS $30,000

JACKSON, DAVID D; *TECTONIC UPLIFT (EAR-8008288)*; 12 MONTHS $44,200

BOEHLER, REINHARD; *ADIABATIC GRADIENTS IN THE EARTH'S MANTLE (EAR-8010827)*; 12 MONTHS $60,000

KNOPOFF, LEON; *CONFERENCE ON MATHEMATICAL PROBLEMS OF THE THERMAL AND DYNAMIC STATE OF THE EARTH TO BE HELD JULY 28 - AUGUST 3, 1980, LOS ANGELES, CALIFORNIA (EAR-8012510)*; 5 MONTHS $14,000

UNIVERSITY OF CALIFORNIA, RIVERSIDE

STIERMAN, DONALD J; *IN SITU STUDIES OF SEISMIC WAVE VELOCITIES AND ATTENUATION IN BASEMENT ROCKS IN SOUTHERN CALIFORNIA (EAR-7926531*)*; 18 MONTHS $34,900

MURPHY, MICHAEL A; *PALEONTOLOGY AND STRATIGRAPHY OF THE DENAY LIMESTONE MIDDLE DEVONIAN OF CENTRAL NEVADA (EAR-8005525)*; 4 MONTHS $13,700

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

WINTERER, EDWARD L; *TETHYAN JURASSIC PELAGIC SEDIMENTS (EAR-7810788 A02)*; 12 MONTHS $23,700

DORMAN, LEROY M, AND OBCUTT, JOHN A; *SCRIPPS PARTICIPATION IN THE RIVERA OCEAN SEISMIC EXPERIMENT (ROSE): EARTHQUAKE STUDIES (EAR-7821816 A01)*; 12 MONTHS $75,000

PARKER, ROBERT L; *EXACT NON-LINEAR INVERSION OF THE ELECTROMAGNETIC INDUCTION PROBLEM (EAR-7919467*)*; 24 MONTHS $30,900

BERGER, JONATHAN, AND BRUNE, JAMES N; *PRECISION MEASUREMENTS OF CRUSTAL DEFORMATION (EAR-7919797)*; 12 MONTHS $60,000

GILBERT, FREEMAN; *DENSITY STRUCTURE OF THE EARTH'S CORES (EAR-7920063)*; 12 MONTHS $69,700

BERGER, JONATHAN, AND GILBERT, FREEMAN; *LONG PERIOD SEISMOLOGY WITH THE GLOBAL IDA NETWORK (EAR-7946378)*; 12 MONTHS $133,600

MACDOUGALL, J DOUGLAS, AND FINKEL, ROBERT C; *MAGMA EVOLUTION AND CHRONOLOGY FOR CASCADE VOLCANOES (EAR-8000484)*; 12 MONTHS $46,500

JORDAN, THOMAS H; *MODELLING OF THE EARTH'S LARGE-SCALE ASPHERICAL HETEROGENEITIES (EAR-8007333)*; 24 MONTHS $110,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

GOODKIND, JOHN M, AND WARBURTON, RICHARD J; *HIGH PRECISION GRAVITY SPECTROSCOPY (EAR-7814790 A01)*; 12 MONTHS $52,500

SUESS, HANS E; *MEASUREMENTS OF NATURAL RADIOCARBON (EAR-7815183 A01)*; 12 MONTHS $40,000

GILBERT, FREEMAN, AND JORDAN, THOMAS H; *OBSERVATION AND INTERPRETATION OF ATTENUATION AND MOMENT TENSORS (EAR-7923779)*; 12 MONTHS $86,500

MOORE, GREGORY F, AND HAWKINS, JAMES W; *GEOLOGICAL EVOLUTION OF THE MOLUCCA SEA COLLISION ZONE (EAR-8007439)*; 12 MONTHS $42,700

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

CROWELL, JOHN C; *LATE PRECAMBRIAN GLACIATION (EAR-7706008 A01)*; 24 MONTHS $72,921

LUYENDYK, BRUCE P; *PALEOMAGNETIC TESTS FOR ROTATIONS IN SOUTHERN CALIFORNIA AND WESTERN MEXICO (EAR-7823496 A01)*; 12 MONTHS $50,000

BOLES, JAMES R; *STUDY OF A JURASSIC-EARLY CRETACEOUS SEDIMENTARY BASIN, VIZCAINO PENINSULA, BAJA SUR, CALIFORNIA (EAR-7904010 A01)*; 29 MONTHS $29,080

PROTHERO, WILLIAM A; *MICRO-SEISMICITY STUDIES IN THE SOUTHERN CALIFORNIA BORDERLANDS (EAR-7919635)*; 12 MONTHS $34,800

FISHER, RICHARD V; *GROUND SURGE, PYROCLASTIC FLOW AND ERUPTION COLUMN COLLAPSE (EAR-7919696)*; 18 MONTHS $34,300

FULLER, MICHAEL D; *MAGNETIC RESPONSE OF ROCKS TO UNIAXIAL COMPRESSION - EFFECT OF CONFINING PRESSURE AND TEMPERATURE (EAR-7921561)*; 12 MONTHS $50,000

FULLER, MICHAEL D; *PALEOMAGNETIC RECORDS OF SECULAR VARIATION FROM SEDIMENTS (EAR-7926239)*; 24 MONTHS $70,000

TILTON, GEORGE R; *GEOCHEMISTRY OF ANDEAN HYDROTHERMAL ORE DEPOSITS AND ASSOCIATED IGNEOUS ROCKS, AND FLOOD BASALTS OF BRITISH COLUMBIA (EAR-8008211)*; 24 MONTHS $32,294

FULLER, MICHAEL D; *PALEOMAGNETIC RECORDS OF REVERSALS (EAR-8008274)*; 24 MONTHS $90,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

CAMERON, KENNETH L, AND CAMERON, MARYELLEN; *GEOLOGY AND GEOCHEMISTRY OF TERTIARY VOLCANIC ROCKS FROM NORTHWESTERN MEXICO AND ADJACENT WEST TEXAS (EAR-7709004 A01)*; 24 MONTHS $78,400

LAPORTE, LEO F, AND BEHRENSMEYER, ANNA K; *LATERAL FACIES ANALYSIS OF THE KOOBI FORA FORMATION (EAR-7734149 A02)*; 6 MONTHS $5,730

MOORE, J C; *CONTRASTS IN STRUCTURAL STYLE OF ACCRETION, KODIAK IS., ALASKA: DATA ANALYSIS AND REGIONAL SYNTHESIS (EAR-8007441)*; 18 MONTHS $44,600

GILL, JAMES B; *PETROLOGY AND GEOCHEMISTRY OF MT. WRANGELL, ALASKA (EAR-8007635)*; 24 MONTHS $31,500

COE, ROBERT S; *PALEOMAGNETIC INVESTIGATION OF THE KODIAK ISLANDS AND THE NIZON FORK TERRANE, ALASKA (EAR-8008213)*; 12 MONTHS $57,700

UNIVERSITY OF SOUTHERN CALIFORNIA

DAVIS, GREGORY A, AND ANDERSON, J L; *STRUCTURE AND PETROLOGY OF DETACHMENT FAULTING IN THE WHIPPLE-BUCKSKIN-RAWHIDE MOUNTAINS TERRANE, CALIFORNIA AND ARIZONA (EAR-7708695 A01)*; 24 MONTHS $94,676

HENYEY, THOMAS L, LEARY, PETER C, AND MALIN, PETER E; *A LONG BASE LINE FLUID TILTMETER, MISSION TUNNEL, SANTA BARBARA, CALIFORNIA (EAR-7919963)*; 12 MONTHS $31,500

TENG, TA-LIANG, AND HENYEY, THOMAS L; *BOREHOLE MEASUREMENTS OF IN SITU STRESS AND TILT (EAR-7919977)*; 12 MONTHS $44,800

MALIN, PETER E; *A NUMERICAL INVESTIGATION OF A METHOD FOR MODELING SURFACE WAVE CODAS (EAR-7920072)*; 12 MONTHS $20,800

STRELITZ, RICHARD A; *ANALYSIS OF SOURCE MECHANISMS FOR COMPLEX EARTHQUAKES (EAR-7920353)*; 12 MONTHS $24,400

HENYEY, THOMAS L, AND LUND, STEVEN P; *LATE QUATERNARY SECULAR VARIATION STUDIES IN CALIFORNIA (EAR-8008532)*; 12 MONTHS $40,000

SAMMIS, CHARLES G, AND HAMMOND, DOUGLAS E; *AN EXPERIMENTAL STUDY OF THE STRESS-INDUCED EMANATION OF RADON AND OTHER GASES FROM STRESSED ROCK (EAR-8009557)*; 12 MONTHS $35,000

WOODWARD-CLYDE CONSULTANTS INC

KELLEHER, JOHN; *DIRECTIONAL HYPOTHESIS GUIDE TO EARTHQUAKE PRECURSORS (EAR-7908119)*; 12 MONTHS $29,700

COLORADO

COLORADO STATE UNIVERSITY

ETHRIDGE, FRANK G; *DEPOSITIONAL MODEL FOR A HOLOCENE MICROTIDAL TIDAL PASS-TIDAL DELTA SYSTEM: SAN LUIS PASS, TEXAS (EAR-8004127)*; 10 MONTHS $17,200

UNIVERSITY OF COLORADO AT BOULDER

STERN, CHARLES R; *PETROLOGIC AND GEOCHEMICAL STUDY OF ULTRAMAFIC AND MAFIC XENOLITHS FOUND IN THE PATAGONIAN PLATEAU BASALTS OF SOUTHERNMOST SOUTH AMERICA (EAR-7911804)*; 12 MONTHS $19,500

WARE, RANDOLPH H, AND BENDER, PETER L; *A STUDY OF TECTONO MAGNETIC METHODS AND INSTRUMENTS (EAR-7920094)*; 12 MONTHS $34,600

ANDREWS, JOHN T; *QUATERNARY HISTORY OF THE NORTHEASTERN SECTOR OF THE LAURENTIDE ICE SHEET AND THE MID-WISCONSIN SEA LEVEL PROBLEM (EAR-7919061)*; 12 MONTHS $37,800

BENTON, EDWARD R; *DATA-BASED THEORETICAL STUDIES OF INTERNAL GEOMAGNETISM (EAR-7926199)*; 24 MONTHS $62,500

CONNECTICUT

UNIVERSITY OF CONNECTICUT

GEISER, PETER; *COLLABORATIVE RESEARCH ON SOLUTION CLEAVAGE AND STRAIN PARTITIONING IN THE APPALACHIAN FORELAND FOLD BELT (EAR-7911685 A01)*; 24 MONTHS $49,210

BLACK, ROBERT F; *LATE QUATERNARY SEA-LEVEL CHANGES AND HISTORY OF ATKA ISLAND, ALEUTIAN ISLANDS, ALASKA (EAR-8004348*)*; 12 MONTHS $33,675

UNIVERSITY OF HARTFORD

STRIEFLER, MANFRED E; *HIGH PRESSURE ELASTIC PROPERTIES AND EQUATION OF STATE OF STISHOVITE (EAR-7926506)*; 12 MONTHS $18,000

YALE UNIVERSITY

TRACY, ROBERT J; *COLLABORATIVE RESEARCH ON MINERAL PHASE RELATIONS IN METAMORPHIC ROCKS OF NEW ENGLAND (EAR-7919901 A02)*; 12 MONTHS $29,500

RYE, DANNY M, AND TRACY, ROBERT J; *STABLE ISOTOPE, FLUID INCLUSION, AND PETROLOGIC STUDIES OF METAMORPHIC ROCK: THE NATURE AND ROLE OF VOLATILES DURING METAMORPHISM (EAR-7903769 A01)*; 12 MONTHS $31,700

WALTHER, JOHN V; *EXPERIMENTAL DETERMINATION OF SOLUBILITIES AND SOLUTION EQUILIBRIA OF ROCK-FORMING MINERALS (EAR-7904595 A01)*; 12 MONTHS $39,700

THOMSON, KEITH S; *SYSTEMATICS OF TRIASSIC AND EARLY JURASSIC SEMIONOTIDAE OF EASTERN NORTH AMERICA (DEB-7911748*)*; 12 MONTHS $10,000

CLARK, SYDNEY P; *DOCTORAL DISSERTATION RESEARCH IN GEOPHYSICS (EAR-8007747)*; 24 MONTHS $4,600

BERNER, ROBERT A; *STUDIES OF CHEMICAL WEATHERING (EAR-8007615)*; 16 MONTHS $10,000

DISTRICT OF COLUMBIA

CARNEGIE INSTITUTION OF WASHINGTON

SACKS, I S, AND LINDE, ALAN T; *ANELASTICITY AND VELOCITY STUDIES OF THE UPPER MANTLE AND STRESS RELEASE OF EARTHQUAKES (EAR-7713500 A01)*; 12 MONTHS $45,000

HOFMANN, ALBRECHT W; *PARTITIONING AND DIFFUSION KINETICS OF TRACE ELEMENTS IN MANTLE-RELATED MINERAL-MELT SYSTEMS (EAR-7911056)*; 12 MONTHS $57,700

HOERING, THOMAS C, AND SHARMA, SHIV K; *FOURIER TRANSFORM INFRARED SPECTROSCOPY FOR GEOCHEMICAL RESEARCH (EAR-7911177)*; 12 MONTHS $69,100

IRVINE, THOMAS N; *FIELD AND SCALE-MODEL STUDIES OF DENSITY CURRENTS AND CONVECTION SYSTEMS IN LAYERED INTRUSIONS (EAR-7911189 A01)*; 12 MONTHS $21,400

FINGER, LARRY W, AND HAZEN, ROBERT M; *MINERAL PHYSICS: RELATIONSHIP BETWEEN CRYSTAL STRUCTURE AND PHYSICAL PROPERTIES OF MINERALS AT HIGH TEMPERATURE AND PRESSURE (EAR-7919768)*; 24 MONTHS $117,600

RUMBLE, DOUGLAS, AND HOERING, THOMAS C; *FLUID FLOW THROUGH ROCKS DURING REGIONAL METAMORPHISM (EAR-7919789)*; 24 MONTHS $85,000

ALDRICH, L T; *A STUDY OF PERUVIAN EXPLOSION SEISMOLOGY DATA BY PARTICIPANTS IN THE 1976 FIELD TRIP (EAR-7903734)*; 12 MONTHS $9,000

BOYD, FRANCIS R; *XENOLITHS FROM THE KIMBERLITES OF EAST GRIQUALAND, R.S.A., AND THEIR BEARING ON TECTONICS AND METASOMATISM IN THE UPPER MANTLE (EAR-7915467)*; 12 MONTHS $28,000

BELL, PETER M; *EXPERIMENTAL STUDY OF THE EARTH'S MANTLE AND MANTLE-CORE BOUNDARY (EAR-8008934)*; 12 MONTHS $93,900

COURTESY TRAVEL SERVICE

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY NSF (INT-7709377 A02*)*; $7,000

NATIONAL ACADEMY OF SCIENCES

PETRIE, WILLIAM L; *U.S. NATIONAL COMMITTEE FOR GEOCHEMISTRY (EAR-7906670 A01)*; 12 MONTHS $13,000

HART, PEMBROKE J; *SUPPORT OF THE GEOPHYSICS RESEARCH BOARD (GRB) AND THE COMMITTEE ON SOLAR-TERRESTRIAL RESEARCH (CSTR) (ATM-7914131 A02*)*; 12 MONTHS $5,000

PETRIE, WILLIAM L; *PARTIAL SUPPORT OF A STUDY PANEL ON GEOCHEMISTRY OF FIBROUS MATERIALS RELATED TO HEALTH RISKS (POGF) AND SUBCOMMITTEE ON THE GEOCHEM. ENVIRON. IN RELATION TO HEALTH DISEASE (GERHD) (EAR-7909335)*; 24 MONTHS $20,000

HART, PEMBROKE J; *SUPPORT OF THE ACTIVITIES OF THE CONTINENTAL SCIENTIFIC DRILLING COMMITTEE (EAR-8014913)*; 24 MONTHS $30,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

KASPER, RAPHAEL; *PARTIAL SUPPORT OF THE INTERNATIONAL ENVIRONMENTAL PROGRAMS COMMITTEE (INT-7826469 A02*)*; 12 MONTHS $6,000

HART, PEMBROKE J; *SUPPORT OF THE U. S. GEODYNAMICS COMMITTEE (EAR-7901089 A02)*; 12 MONTHS $20,000

HART, PEMBROKE J; *STUDIES IN GEOPHYSICS (EAR-7902458 A03*)*; 12 MONTHS $17,000

FLORIDA

FLORIDA STATE UNIVERSITY

HATCHER, ROBERT D, AND ODOM, A L; *TECTONIC HISTORY OF THE PINE MOUNTAIN BELT, GEORGIA, AND ITS RELATIONSHIPS TO FORMATION OF CRYSTALLINE THRUST SHEETS (EAR-7911802*)*; 24 MONTHS $67,000

HATCHER, ROBERT D; *PENROSE CONFERENCE ON TECTONICS AND GEOPHYSICS OF THE APPALACHIANS, HELEN, GEORGIA, APRIL 28 - MAY 2, 1980 (EAR-8001472*)*; 5 MONTHS $4,000

NOVA UNIVERSITY-OCEAN SCIENCE CENTER

DODGE, RICHARD E; *GEOLOGICAL AND SEA LEVEL HISTORY IMPLICATIONS OF THE RAISED REEFS OF HAITI (EAR-7919721)*; 12 MONTHS $29,894

UNIVERSITY OF FLORIDA

DEEVEY, EDWARD S; *LATE PLEISTOCENE SEDIMENTOLOGY AND PALEOECOLOGY OF THE PETEN LAKE DISTRICT, GUATEMALA (EAR-7908389*)*; 12 MONTHS $45,000

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

HAY, WILLIAM W; *WORKSHOPS TO REVISE THE AMERICAN STRATIGRAPHIC CODE (EAR-7919845)*; 24 MONTHS $37,200

WANLESS, HAROLD R; *PALEOECOLOGY AND DIAGENESIS OF THE PLIOCENE PINECREST REEF, SOUTHWEST FLORIDA--A LINK BETWEEN THE TERTIARY AND RECENT (EAR-7921790)*; 12 MONTHS $27,283

GINSBURG, ROBERT N; *REGIONAL SYNTHESIS OF PLIO-PLEISTOCENE CARBONATES, BAHAMAS ARCHIPELAGO (EAR-7927212*)*; 12 MONTHS $20,562

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

MARESCHAL, J-C; *A MODEL OF SUBSIDENCE FOR INTRACONTINENTAL SEDIMENTARY BASIN WITH APPLICATION TO THE FORMATION OF THE MICHIGAN BASIN (EAR-7918199)*; 12 MONTHS $19,700

MARESCHAL, J-C; *A MAGNETOTELLURIC SURVEY IN THE SOUTHERN APPALACHIANS (EAR-7925395*)*; 12 MONTHS $17,200

UNIVERSITY OF GEORGIA

WENNER, DAVID B, WHITNEY, JAMES A, AND STORMER, JOHN C; *AN INTEGRATED INVESTIGATION OF POST-METAMORPHIC PLUTONS OF THE SOUTHERN APPALACHIANS INVOLVING PETROLOGIC, STABLE ISOTOPIC, AND TRACE AND MAJOR ELEMENT GEOCHEMICAL STUDIES (EAR-7918187 A01)*; 12 MONTHS $50,000

RICH, MARK; *TEST STRUCTURE AND TEST COMPOSITION OF SOME CARBONIFEROUS FUSULININA (EAR-7904251)*; 24 MONTHS $40,587

ELLWOOD, BROOKS B, AND WHITNEY, JAMES A; *A MAGNETIC AND PETROLOGICAL STUDY OF LATE PALEOZOIC GRANITIC INTRUSIVES IN THE SOUTHERN PIEDMONT PROVINCE OF GEORGIA (EAR-7919911)*; 12 MONTHS $28,700

RICH, MARK; *CARBONIFEROUS CALCAREOUS FORAMINIFERA FROM NORTHEASTERN ALABAMA, SOUTH-CENTRAL TENNESSEE AND NORTHWESTERN GEORGIA (EAR-7919996)*; 6 MONTHS $2,883

LEDBETTER, MICHAEL T; *THE DURATION, AGE, CORRELATION AND DISTRIBUTION OF CENTRAL AMERICAN EXPLOSIVE VOLCANIC EVENTS (EAR-7920076)*; 12 MONTHS $37,000

DALLMEYER, R D; *COLLABORATIVE RESEARCH ON THE NATURE, EXTENT AND TIMING OF THE ALLEGHANIAN METAMORPHISM IN SOUTHERN NEW ENGLAND (EAR-8016007)*; 12 MONTHS $32,000

HAWAII

UNIVERSITY OF HAWAII-MANOA

PHILPOTTS, JOHN A; *PARTITIONING OF ELEMENTS BETWEEN MINERALS AND IGNEOUS LIQUIDS (EAR-7903631 A01)*; 12 MONTHS $30,000

KEATING, BARBARA H, AND HELSLEY, CHARLES E; *PALEOMAGNETIC AND RADIOMETRIC AGE DATING STUDIES IN THE U.S. TRUST TERRITORIES AND BONIN ISLANDS (EAR-7920065)*; 24 MONTHS $75,000

FRAZER, L N; *STUDY OF THE CRUST AND UPPER MANTLE USING SP, S AND SHEAR COUPLED PL (EAR-7926113)*; 12 MONTHS $40,000

GETTRUST, JOSEPH F, AND HELSLEY, CHARLES E; *ANALYSIS OF FORESHOCKS AND AFTERSHOCKS OF THE PETATLAN EARTHQUAKE OF MARCH 14, 1979 (EAR-7926345)*; 12 MONTHS $50,000

RISSO, JOHANNA M; *DETERMINATION OF UPLIFT RATES OF THE SOLOMON ISLANDS THROUGH FORAMINIFERAL STRATIGRAPHY AND PALEOBATHYMETRY (EAR-7926369)*; 24 MONTHS $39,300

HELSLEY, CHARLES E, AND GETTRUST, JOSEPH F; *ROSE DATA ARCHIVE (EAR-8002124*)*; 12 MONTHS $40,000

MANGHNANI, MURLI H; *SINGLE CRYSTAL ELASTIC MODULI OF HIGH-PRESSURE MANTLE PHASES, USING BRILLOUIN SCATTERING* (EAR-8007735; 12 MONTHS $42,000

SCHLANGER, SEYMOUR O; *PALEOENVIRONMENTAL ANALYSIS OF STRATA DEPOSITED DURING THE CENOMANIAN-TURONIAN OCEANIC ANOXIC EVENT* (EAR-8008281; 24 MONTHS $22,000

MANGHNANI, MURLI H; *LABORATORY STUDY OF VELOCITY AND ATTENUATION IN BASALTS AND ULTRAMAFIC ROCKS TO MELTING TEMPERATURES* (EAR-8503323; 12 MONTHS $30,000

IDAHO

IDAHO STATE UNIVERSITY

WHITE, JOHN A; *BIOSTRATIGRAPHY OF THE PLIOCENE-PLEISTOCENE OF THE WESTERN SNAKE RIVER PLAIN* (EAR-7914037; 12 MONTHS $13,024

ILLINOIS

FIELD MUSEUM OF NATURAL HISTORY

MARSHALL, LARRY G; *GEOCHRONOLOGY OF MAMMAL-BEARING CENOZOIC OF ARGENTINA* (EAR-7909515; 12 MONTHS $43,016

BAIRD, GORDON C; *PALEOECOLOGY OF THE MAZON CREEK BIOTA* (EAR-7911319; 24 MONTHS $50,000

NORTHERN ILLINOIS UNIVERSITY

EHRENBERG, STEPHEN N; *POTASSIC BASIC MAGMAS AND GARNET LHERZOLITE INCLUSIONS FROM THE NAVAJO VOLCANIC FIELD* (EAR-7911292 A01; 12 MONTHS $19,000

MONTGOMERY, CARLA W; *RB-SR ISOTOPIC INVESTIGATION OF PRECAMBRIAN ROCKS IN THE SOUTH SNOWY BLOCK, BEARTOOTH MOUNTAINS, MONTANA AND WYOMING* (EAR-7911324; 24 MONTHS $30,800

PERRY, EUGENE C; *STABLE ISOTOPE STUDIES* (EAR-7911334; 24 MONTHS $50,000

ODOM, I E; *UPGRADING OF ELECTRON MICROPROBE INSTRUMENTATION FOR GEOLOGICAL RESEARCH* (EAR-7920146; 12 MONTHS $15,900

NORTHWESTERN UNIVERSITY

MACKENZIE, FRED T, LERMAN, ABRAHAM, AND GARRELS, ROBERT M; *GLOBAL GEOCHEMICAL CYCLES OF THE ELEMENTS* (EAR-7612279 A05; 12 MONTHS $65,000

BISHOP, FINLEY C; *MINERAL EQUILIBRIA AT HIGH TEMPERATURES AND PRESSURES* (EAR-7815475 A01; $4,500

SPEED, ROBERT C; *GEOLOGIC AND PALEOMAGNETIC STUDIES OF SONOMIA AND THE TECTONIC HISTORY OF WESTERN NORTH AMERICA* (EAR-7911150*; 15 MONTHS $27,087

STEIN, SETH; *INVESTIGATION OF PLATE TECTONIC PROCESSES* (EAR-8007163; 24 MONTHS $53,500

WALTHER, JOHN V; *EXPERIMENTAL DETERMINATION OF SOLUBILITIES AND SOLUTION EQUILIBRIA OF ROCK-FORMING MINERALS* (EAR-8214146; 9 MONTHS $31,360

UNIVERSITY OF CHICAGO

WYLLIE, PETER J; *PETROGENETIC LINKS BETWEEN CARBONATITES AND KIMBERLITES* (EAR-7620410 A04; 12 MONTHS $59,900

WYLLIE, PETER J; *EXPERIMENTAL STUDIES ON THE ORIGIN OF PLUTONIC IGNEOUS ROCK SERIES* (EAR-7620413 A04; 12 MONTHS $59,900

SMITH, JOSEPH V; *ION MICROPROBE ANALYSES OF FELDSPARS AND UPPER-MANTLE MINERALS* (EAR-7727100 A02; 12 MONTHS $108,800

GOLDSMITH, JULIAN R; *THE CRYSTAL CHEMISTRY OF SOME SILICATES AND CARBONATES* (EAR-7813675 A02; 12 MONTHS $69,700

NEWTON, ROBERT C; *EXPERIMENTAL GEOCHEMISTRY OF ROCK-FORMING MINERALS AT HIGH TEMPERATURES AND PRESSURES* (EAR-7815939 A01; 12 MONTHS $110,700

CLAYTON, ROBERT N; *STABLE ISOTOPE GEOCHEMISTRY* (EAR-7815190 A01; 12 MONTHS $128,500

ZIEGLER, ALFRED M; *AN ATLAS OF PALEOGEOGRAPHIC MAPS* (EAR-7915133 A01; 20 MONTHS $58,487

MOORE, PAUL B; *CRYSTAL CHEMISTRY AND STRUCTURE SYSTEMATICS OF MINERALS AND RELATED INORGANIC COMPOUNDS* (EAR-7918259; 12 MONTHS $137,700

JAMIESON, JOHN C; *THE PHYSICAL BEHAVIOR OF SOLIDS UNDER VERY HIGH PRESSURE* (EAR-7922044; 24 MONTHS $110,000

RICHTER, FRANK M; *DYNAMICAL MODELS RELATED TO MANTLE CONVECTION* (EAR-7926482*; 12 MONTHS $43,200

ANDERSON, ALFRED T; *ROLE OF GASES IN SUBDUCTION ZONE VOLCANISM* (EAR-7926485; 12 MONTHS $45,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

SMITH, NORMAN D; *STUDIES OF BRAIDING AND BED-LOAD TRANSPORT IN GRAVEL STREAMS* (EAR-7718181 A01; 12 MONTHS $18,300

UNIVERSITY OF ILLINOIS AT URBANA

ANDERSON, DAVID E; *CHEMICAL ZONING IN METAMORPHIC GARNETS* (EAR-7815197 A02; 12 MONTHS $28,200

KIRKPATRICK, R JAMES; *KINETICS OF IGNEOUS PROCESSES* (EAR-7903923 A01; $11,500

KIRKPATRICK, R JAMES; *KINETICS OF IGNEOUS PROCESSES* (EAR-7903923 A02; 12 MONTHS $36,700

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

DODD, J ROBERT; *BIOSTRATIGRAPHY AND PALEOECOLOGY OF THE NEOGENE OF THE HUMBOLDT BASIN* (EAR-7709775 A01; 24 MONTHS $40,000

MEINSCHEIN, WARREN G; *BIOGEOCHEMICAL RESEARCH* (EAR-7909631 A01; 12 MONTHS $41,300

RUHE, ROBERT V; *CLAY MINERALS AS INDICATORS OF LOESS SOURCES FROM CONFLUENT RIVERINE SYSTEMS* (EAR-7911216; 24 MONTHS $35,507

KLEIN, CORNELIS; *ENERGY DISPERSIVE SYSTEM FOR ELECTRON MICROPROBE* (EAR-7922744; 12 MONTHS $22,800

DUNNING, JEREMY D; *CHEMOMECHANICAL WEAKENING OF GEOLOGIC MATERIALS BY CHEMICALLY ACTIVE SURFACTANTS* (EAR-8006379; 12 MONTHS $17,900

PURDUE UNIVERSITY

MC CALLISTER, ROBERT H; *MECHANISMS OF EXSOLUTION AND COARSENING KINETICS IN CLINOPYROXENES* (EAR-8001483; 12 MONTHS $55,100

UNIVERSITY OF NOTRE DAME

WINKLER, ERHARD M; *WEATHERING RATES IN AN URBAN ATMOSPHERE STUDIED ON THE NATIONAL BUREAU OF STANDARDS TEST WALL* (EAR-7908579; 24 MONTHS $39,797

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

RICHARDSON, CATHERINE K; *THE CHEMICAL EVOLUTION OF FLUIDS IN THE CAVE-IN-ROCK DISTRICT, ILLINOIS* (EAR-7915190 A01; $1,600

VONDRA, CARL F; *STRATIGRAPHY, TUFF CORRELATION AND PALEOENVIRONMENTS OF THE KOOBI FORA FORMATION, EAST TURKANA, KENYA* (EAR-7902800 A01; 12 MONTHS $24,700

WINDOM, KENNETH E; *THE ROLE OF FELDSPAR IN THE EARTH'S INTERIOR: HIGH-PRESSURE PHASE RELATIONS IN THE SYSTEM NAALSIO4-MGSIO4-SIO2* (EAR-7905292 A01; 12 MONTHS $28,200

KANSAS

KANSAS STATE UNIVERSITY

CHAUDHURI, SAMBHUDAS; *THE STRONTIUM ISOTOPIC COMPOSITION OF FORMATION WATERS* (EAR-7909079*; 24 MONTHS $41,500

CHAUDHURI, SAMBHUDAS; *THE STRONTIUM ISOTOPIC COMPOSITION OF FORMATION WATERS* (EAR-7909079 A01; $5,400

UNIVERSITY OF KANSAS MAIN CAMPUS

VAN SCHMUS, WILLIAM R; *GEOCHRONOLOGY AND GEOCHEMISTRY OF EARLY PROTEROZOIC MOBILE BELTS IN NORTH AMERICA* (EAR-7919544*; 12 MONTHS $38,700

ROWELL, ALBERT J; *DEVELOPMENT AND PALEOGEOGRAPHY OF TRANSITIONAL ASSEMBLAGE ROCKS OF THE CAMBRIAN OF NEVADA* (EAR-7919973; 24 MONTHS $64,595

KENTUCKY

EASTERN KENTUCKY UNIVERSITY

MORRIS, ROBERT C; *EQUIPMENT FOR RESEARCH IN SEDIMENTARY PETROLOGY* (EAR-8000478; 12 MONTHS $3,540

MOREHEAD STATE UNIVERSITY

DUBAR, JULES R; *NEOGENE PELECYPODA, CAPE FEAR AREA, NORTH AND SOUTH CAROLINA* (EAR-7909197 , 24 MONTHS $57,014

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

BYERLY, GARY R; *GEOLOGIC STUDIES OF ARCHEAN SEDIMENTARY ROCKS OF THE BARBERTON MOUNTAINLAND, SOUTH AFRICA* (EAR-7919907; 12 MONTHS $24,400

LOWE, DONALD R; *SEDIMENTOLOGICAL AND PALEOENVIRONMENTAL CONTROLS ON THE MORPHOLOGY AND DISTRIBUTION OF CARBONACEOUS MATTER IN ARCHEAN CHERT, SOUTH AFRICA* (EAR-7919908; 12 MONTHS $56,900

VAN DEN BOLD, WILLEM A; *POST-EOCENE OSTRACODA IN THE CARIBBEAN REGION* (EAR-8011461; 12 MONTHS $12,100

MAINE

UNIVERSITY OF MAINE, ORONO

CHERNOSKY, JOSEPH V; *THE STABILITY OF CLINOCHLORE, ANTIGORITE, AND RELATED SILICATES IN THE SYSTEM CAO-MGO-AL2O3-SIO2-H2O-CO2* (EAR-7904092 A01; 12 MONTHS $22,300

MARYLAND

JOHNS HOPKINS UNIVERSITY

ELLIOTT, DAVID W; *MECHANISMS ASSOCIATED WITH THE EMPLACEMENT OF THRUST SHEETS* (EAR-7722570 A01; 24 MONTHS $69,000

EUGSTER, HANS P, AND OLSEN, SAKIKO N; *THE STUDY OF THE FRONT RANGE MIGMATITES, COLORADO* (EAR-7919989; 24 MONTHS $33,300

MARSH, BRUCE D; *DYNAMIC IGNEOUS PETROLOGY* (EAR-8001109; 6 MONTHS $15,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

ADLER, ISIDORE; *THE APPLICATION OF X-RAY PHOTOELECTRON AND AUGER SPECTROSCOPY TO SOME SELECTED GEOCHEMICAL PROBLEMS* (EAR-7916451 A01); 12 MONTHS $60,500

MASSACHUSETTS

BOSTON UNIVERSITY

GOLUBIC, STJEPKO, AND CAMERON, BARRY W; *FOSSIL ENDOLITHIC aLGAE AND FUNGI: DEPTH DISTRIBUTION, PALEOECOLOGY AND EVOLUTION* (EAR-7911900 A01); 19 MONTHS $67,626

HARVARD UNIVERSITY

DZIEWONSKI, ADAM M; *ELASTIC AND ANELASTIC STRUCTURE OF THE EARTH'S INTERIOR FROM FREE OSCILLATION AND SURFACE WAVE DATA* (EAR-7715661 A01); 24 MONTHS $107,200

THOMPSON, JAMES B; *COLLABORATIVE RESEARCH ON MINERAL PHASE RELATIONS IN METAMORPHIC ROCKS OF NEW ENGLAND* (EAR-7908711 A02); 12 MONTHS $57,400

DYMEK, ROBERT F; *MINERALOGIC AND PETROLOGIC STUDIES OF METAMORPHOSED ARCHAEAN SUPRACRUSTAL ROCKS FROM WEST GREENLAND* (EAR-7919412 A01); 12 MONTHS $50,300

BARGHOORN, ELSO S; *PRECAMBRIAN FOSSILS AND THE ORGANIC GEOCHEMISTRY OF PRECAMBRIAN SEDIMENTS* (EAR-7918497 A01); 12 MONTHS $53,300

SIEVER, RAYMOND; *PETROLOGY AND GEOCHEMISTRY OF FINE-GRAINED SILICEOUS SEDIMENTS* (EAR-7906384 A01); 12 MONTHS $58,500

BURNHAM, CHARLES W; *CRYSTAL CHEMISTRY OF ROCF-FORMING MINERALS* (EAR-7920685); 12 MONTHS $70,800

HOLLAND, HEINRICH D; *COLLABORATIVE EFFORT: MIT-BROWN-HARVARD REGIONAL ION MICROPROBE FACILITY* (EAR-7911554); 12 MONTHS $21,500

SIEVER, RAYMOND; *A NEW ELECTRON MICROPROBE* (EAR-7918080); 12 MONTHS $174,800

HAYS, JAMES F; *EXPERIMENTAL PETROLOGY OF LUNAR AND PLANETARY IGNEOUS ROCKS* (EAR-7918977); 12 MONTHS $63,000

GORDON, ROY G; *THEORETICAL PREDICTION OF PROPERTIES OF MINERALS AT HIGH PRESSURES AND TEMPERATURES* (EAR-8006510); 12 MONTHS $50,000

DYMEK, ROBERT F; *PETROLOGICAL AND GEOCHEMICAL STUDIES ON THE ST. URBAIN ANORTHOSITE, QUEBEC, CANADA* (EAR-8000210); 24 MONTHS $89,540

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

MADDEN, THEODORE R; *INDUCED POLARIZATION: A STUDY OF ITS CHEMICAL BASIS* (EAR-7708488 A02); 24 MONTHS $70,500

SOLOMON, SEAN C; *STRUCTURE AND DYNAMICS OF SPREADING CENTERS: TELESEISMIC AND OCEAN-BOTTOM STUDIES* (EAR-7709985 A01); 24 MONTHS $150,000

AKI, KEIITI; *GLOBAL TECTONIC SYNTHESIS FROM THE SPECTRAL ANALYSIS OF SEISMIC WAVES* (EAR-7715832 A01); 24 MONTHS $137,500

BURCHFIEL, BURRELL C; *STRUCTURAL FRAMEWORK AND EVOLUTION Of THE SOUTHERN PART OF THE CORDILLERAN OROGENIC BELT (L'.B-7712727 A01*); 24 MONTHS $76,250

MOLNAR, PETER, AND BURCHFIEL, BURRELL C; *EARTHQUAKE SOURCE PARAMETERS AND TECTONICS IN ASIA* (EAR-7718017 A01); 24 MONTHS $97,500

HART, STANLEY R; *GEOCHEMICAL EVOLUTION OF THE MANTLE* (EAR-7905141 A02); 12 MONTHS $70,606

HART, STANLEY R, AND PADOVANI, ELAINE R; *GEOCHEMICAL STUDIES OF LOWER CRUSTAL XENOLITHS FROM KILBOURNE HOLE, NEW MEXICO* (EAR-7915113 A01); 12 MONTHS $54,700

FREY, FREDERICK; *TRACE ELEMENT DISTRIBUTION IN IGNEOUS GEOLOGIC SYSTEM* (EAR-7915451 A01); 12 MONTHS $73,000

SOUTHARD, JOHN B; *EXPERIMENTAL STUDIES ON GENERATION OF CROSS STRATIFICATION BY MIGRATION OF LARGE-SCALE SUBAQUEOUS BED FORMS* (EAR-7908079 A01); 20 MONTHS $40,200

LEWIS, JOHN S, AND COX, LARRY P; *NUMERICAL SIMULATION OF THE FINAL STAGES OF TERRESTRIAL PLANET FORMATION* (EAR-7904169); 12 MONTHS $43,200

UHLMANN, DONALD R; *KINETIC PROCESSES IN GEOLOGIC MATERIALS* (EAR-7908701 A01); 12 MONTHS $60,000

SPEAR, FRANK S; *PETROLOGIC INVESTIGATION OF THE AMMONOOSUC AND POST POND VOLCANICS, NEW HAMPSHIRE: A KEY TO THE REGIONAL TECTONICS OF WEST-CENTRAL NEW ENGLAND* (EAR-7911168 A01); 12 MONTHS $64,400

GROVE, TIMOTHY L; *PHASE EQUILIBRIA AND KINETIC INVESTIGATIONS OF EXTRUSIVE IGNEOUS ROCKS* (EAR-7919748); 12 MONTHS $42,000

SOUTHARD, JOHN B; *EXPERIMENTAL STUDIES OF WIND RIPPLES* (EAR-7919994); 12 MONTHS $18,700

SHAPIRO, IRWIN I, AND COUNSELMAN, CHARLES C; *GEOPHYSICAL APPLICATIONS OF ATOMIC CLOCK RADIO INTERFEROMETRY* (EAR-7908853); 12 MONTHS $159,000

HART, STANLEY R; *GEOCHEMICAL RESEARCH USING THE ION MICROPROBE* (EAR-7925650); 12 MONTHS $72,300

SPEAR, FRANK S; *PURCHASE OF AN ENERGY DISPERSIVE ANALYZER FOR THE ELECTRON MICROPROBE FACILITY* (EAR-7926379); 12 MONTHS $50,000

MOLNAR, PETER, AND BURCHFIEL, BURRELL C; *RELATIVE MOTION OF THE PACIFIC, FARALLON AND NORTH AMERICAN PLATES AND THE TECTONIC HISTORY OF WESTERN NORTH AMERICA* (EAR-7906749); 12 MONTHS $86,300

BURCHFIEL, BURRELL C; *LOWER CRUSTAL RESPONSE TO COLLISIONAL TECTONICS, NORTH NORWAY* (EAP-7916317); 12 MONTHS $22,400

HART, STANLEY R; *UPGRADING OF 12-INCH MASS SPECTROMETER* (EAR-8001471); 12 MONTHS $29,900

HART, STANLEY R; *COLLABORATIVE EFFORT: MIT-BROWN-HARVARD REGIONAL ION MICROPROBE FACILITY* (EAR-8006647); 12 MONTHS $124,400

SOUTHARD, JOHN B; *STUDIES OF BRAIDING AND BED-LOAD TRANSPORT IN GRAVEL STREAMS* (EAR-8006109); 12 MONTHS $19,900

BRACE, WILLIAM F; *ROLE OF A SECOND PHASE IN THE RECRYSTALLIZATION OF ROCKS* (EAR-8000554); 12 MONTHS $67,700

PARSONS, BARRY; *STUDIES OF MANTLE CONVECTION WITH LABORATORY AND NUMERICAL EXPERIMENTS* (EAR-8006109); 24 MONTHS $80,500

UNIVERSITY OF MASSACHUSETTS, AMHERST

HAGGERTY, STEPHEN E; *EXPERIMENTAL INVESTIGATIONS OF OPAQUE MINERAL OXIDES* (EAR-7902519 A01); 12 MONTHS $93,600

HAGGERTY, STEPHEN E; *ORIGIN, DISTRIBUTION AND GEOLOGICAL SETTING OF TERRESTRIAL METAL ALLOYS* (EAR-7902541 A01); 12 MONTHS $33,000

RHODES, JOHN M, HAGGERTY, STEPHEN E, AND MORSE, STEARNS A; *ANALYTICAL FACILITY FOR GEOCHEMISTRY* (EAR-7919997 A01); 12 MONTHS $79,000

ROBINSON, PETER, AND RHODES, JOHN M; *GEOCHEMISTRY AND PETROLOGY OF METAMORPHOSED VOLCANIC AND PLUTONIC ROCKS OF THE BRONSON HILL ANTICLINORIUM AND MERRIMACK SYNCLINORIUM, CENTRAL MASSACHUSETTS* (EAR-7911397 A01); 12 MONTHS $82,800

ROBINSON, PETER, *STRATIGRAPHY, STRUCTURE, AND METAMORPHIC PETROLOGY OF PREDEVONIAN ROCKS IN CENTRAL MASSACHUSETTS* (EAR-7913164*); 24 MONTHS $14,600

FARQUHAR, OSWALD C; *PUBLICATION OF PROCEEDINGS OF THE CONFERENCE ON GEOTECHNOLOGY, UNIVERSITY OF MASSACHUSETTS, BOSTON, MASSACHUSETTS, MARCH 19-21, 1980* (EAR-7917099); 12 MONTHS $2,000

MORSE, STEARNS A; *MANTLE AND CRUSTAL EVOLUTION AS REFLECTED IN THE ANORTHOSITIC NAIN COMPLEX, LABRADOR* (EAR-8011393); 12 MONTHS $42,000

WOODS HOLE OCEANOGRAPHIC INSTITUTION

SCHELTEMA, RUDOLF S; *IMPLICATIONS OF PELAGIC INVERTEBRATE LARVAE FOR ZOOGEOGRAPHY AND EVOLUTION IN THE PRESENT AND GEOLOGIC PAST* (EAR-7916391); 24 MONTHS $80,000

MICHIGAN

UNIVERSITY OF MICHIGAN

EISENE, ERIC J; *THE ROLE OF FLUIDS IN METAMORPHISM* (EAR-7913548 A01); $4,000

KESLER, STEPHEN E; *GEOCHEMISTRY AND GEOCHRONOLOGY OF Y-S-N-S-B-H-G-F MINERALIZATION IN NORTHERN MEXICO* (EAR-7906554 A01); 12 MONTHS $57,100

KELLY, WILLIAM C, AND EISENE, ERIC J; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES* (EAR-7916045); 24 MONTHS $6,100

PEACOR, DONALD R; *POWDER DIFFRACTOMETER SYSTEM FOR RESEARCH IN EARTH SCIENCES* (EAR-7918701); 12 MONTHS $43,000

MAUK, FREDERICK J; *A PALEOMAGNETIC INVESTIGATION OF ARUBA AND CURACAO, LEEWARD ANTILLES* (EAR-7918724); 12 MONTHS $17,600

WILSON, JAMES L; *PETROLOGY AND DIAGENESIS OF SHALLOW-WATER CHALKY CARBONATES* (EAR-7910756); 24 MONTHS $35,000

EISENE, ERIC J, AND KELLY, WILLIAM C; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES* (EAR-7918054); 24 MONTHS $9,200

EISENE, ERIC J, AND WESTRUM, EDGAR F; *THERMODYNAMICS AND PHASE EQUILIBRIA OF CERTAIN TRANSITION-ELEMENT MINERALS* (EAR-8005135); 24 MONTHS $10,000

WESTERN MICHIGAN UNIVERSITY

SCHMIDT, C J; *A STUDY OF LARAMIDE BASEMENT FAULTING IN SOUTHWEST MONTANA* (EAR-7918400); 24 MONTHS $47,300

MINNESOTA

UNIVERSITY OF MINNESOTA

HOOKE, ROGER L, GUSTAFSON, ROBERT J, AND HOTCHKISS, RICHARD L; *DEFORMATION, TEMPERATURE, AND FABRIC STUDIES ALONG A FLOW LINE, BARNES ICE CAP, BAFFIN ISLAND, CANADA* (EAR-7711090 A02); 6 MONTHS $13,000

STOUT, JAMES H, AND SHAW, GEORGE H; *PHASE RELATIONS AT HIGH PRESSURE AND TEMPERATURE BY SIMULTANEOUS DIAMOND ANVIL LASER HEATING AND ENERGY DISPERSIVE DIFFRACTION* (EAR-7911947 A01); 12 MONTHS $10,300

HOOKE, ROGER L; *LABORATORY STUDY OF MECHANICS OF GLACIER AND ICE SHEET SLIDING* (EAR-7911179); 24 MONTHS $11,200

MURTHY, V R; *ISOTOPIC AND GEOCHEMICAL STUDIES OF MANTLE-RELATED ROCKS AND MINERALS* (EAR-7918189); 12 MONTHS $74,300

BANERJEE, SUBIR K; *A HIGH RESOLUTION STUDY OF PALEOMAGNETIC VARIATION FROM LAKE SEDIMENTS* (EAR-7918999); 24 MONTHS $110,200

HOOKE, ROGER L, AND LIVELY, RICHARD; *U-SERIES DATING OF LATE WISCONSIN AND HOLOCENE TECTONIC DEFORMATION, DEATH VALLEY, CALIFORNIA* (EAR-7919899); 24 MONTHS $9,300

UNIVERSITY OF MINNESOTA AT DULUTH

RAPP, GEORGE, *HOLOCENE COASTAL CHANGE IN ELIS, SOUTHWESTERN GREECE* (EAR-8802110); 12 MONTHS $6,150

UNIVERSITY OF MINNESOTA AT SAINT PAUL

PFANNKUCH, HANSOLAF, *THE HYDROLOGIC REGIME OF LAKE-GROUNDWATER INTERACTION IN LOCAL AND REGIONAL GROUND-WATER FLOW SYSTEMS* (EAR-7720989 A01); 12 MONTHS $27,500

MISSOURI

ST LOUIS UNIVERSITY

MITCHELL, BRIAN J, *INVESTIGATIONS OF SURFACE WAVE ATTENUATION AND ANELASTICITY WITHIN AND BENEATH OCEANIC PLATES* (EAR-7716497 A01); 24 MONTHS $64,300

WASHINGTON UNIVERSITY

WALKER, ROBERT M, *THE STUDY OF GEOLOGICAL MATERIALS BY THE METHODS OF PARTICLE TRACKS, THERMOLUMINESCENCE AND RARE GASES* (EAR-7321940 A01); 12 MONTHS $7,700

GURTTEL, KENNETH A, *HIGH PRESSURE EXPERIMENTS ON GEOLOGICAL MATERIALS USING THE DIAMOND ANVIL PRESSURE CELL* (EAR-7911078 A01); 6 MONTHS $15,200

DAVIES, GEOFFREY F, *DYNAMICS AND EVOLUTION OF THE EARTH'S MANTLE* (EAR-8809435); 12 MONTHS $30,000

BATIZA, ROBERT, *FIELD AND GEOLOGICAL STUDY OF GRANITOID ROCKS FROM A METAMORPHIC CORE COMPLEX IN EASTERN EGYPT* (EAR-8809614); 6 MONTHS $5,700

MONTANA

UNIVERSITY OF MONTANA

QUAMAR, ANTHONY, *A STUDY OF CRUSTAL STRUCTURE OF AN OROGENIC BELT, NORTHERN MONTANA AND NORTHERN IDAHO* (EAR-8308414); 12 MONTHS $12,500

NEVADA

UNIVERSITY OF NEVADA, RENO

NOBLE, DONALD C, *CENOZOIC VOLCANIC AND TECTONIC EVOLUTION OF THE ANDES OF PERU* (EAR-8801489); 24 MONTHS $54,700

NEW HAMPSHIRE

DARTMOUTH COLLEGE

REYNOLDS, ROBERT C, *BURIAL METAMORPHISM IN THE MANCOS SHALE* (EAR-7908509 A01); 12 MONTHS $37,100

JOHNSON, NOYE M, LYONS, JOHN B, AND NASSER, CHARLES W, *UPLIFT HISTORY OF THE KARAKORAM HINDU KUSH RANGES, NORTHERN PAKISTAN BY MEANS OF FISSION TRACK ANNEALING AGES* (EAR-8409426); 24 MONTHS $36,000

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

GAUDETTE, HENRI E, *TRACE METAL DIAGENESIS OF RECENT MARINE SABINA SEDIMENTS* (EAR-7911156); 12 MONTHS $34,300

GAUDETTE, HENRI E, AND OLSZEWSKI, WILLIAM J, *A UNIVERSITY OF NEW HAMPSHIRE SOLID-SOURCE MASS SPECTROMETER* (EAR-7908363); 12 MONTHS $40,000

GAUDETTE, HENRI E, *A RB-SR AND U-PB GEOCHRONOLOGIC STUDY OF PRECAMBRIAN ROCKS IN EASTERN NEW ENGLAND AND MARITIME CANADA* (EAR-7917594); 24 MONTHS $62,400

NEW JERSEY

PRINCETON UNIVERSITY

SPERA, FRANK J, *ASPECTS OF MAGMA TRANSPORT: EXPERIMENTAL, PHYSICAL MODELS AND FIELD STUDIES* (EAR-7908549 A01); 24 MONTHS $39,100

HOLLISTER, LINCOLN S, *COLLABORATIVE RESEARCH ON FLUID COMPOSITIONS IN METAMORPHOSED SEDIMENTS BY FLUID INCLUSION STUDIES* (EAR-7908397 A01); $1,000

HOLLISTER, LINCOLN S, *COLLABORATIVE RESEARCH ON FLUID COMPOSITIONS AND DENSITIES IN METAMORPHIC ROCKS BY FLUID INCLUSION STUDIES* (EAR-7908397 A02); 24 MONTHS $44,900

PHINNEY, ROBERT A, *INTERPRETATION AND ANALYSIS OF DEEP CRUSTAL REFLECTION DATA* (EAR-7908500 A01); 12 MONTHS $60,100

DAHLEN, F A, *ANALYSIS OF FREE OSCILLATION AND SURFACE WAVE DATA TO INFER THE LATERAL HETEROGENEITY OF THE EARTH* (EAR-7919717); 24 MONTHS $120,100

SUPPE, JOHN S, *GEOMETRIC AND KINEMATIC PROPERTIES OF MAP-SCALE DECOLLEMENT FOLDS* (EAR-7910449); 12 MONTHS $41,500

CERRAR, DAVID A, *THERMODYNAMIC STUDIES OF HYDROTHERMAL SOLUTIONS* (EAR-7908401); 12 MONTHS $57,300

DOWTY, ERIC, *KINETIC PROPERTIES OF MINERALS* (EAR-7908504); 24 MONTHS $39,500

PHINNEY, ROBERT A, *FIELD EXPERIMENT TO OBTAIN WIDE ANGLE MOHO REFLECTIONS ON CONRAD PROFILE* (EAR-8801780); 12 MONTHS $46,000

PHINNEY, ROBERT A, *INDO-U.S. COOPERATIVE STUDIES OF THE PROCESSING AND INTERPRETATION OF DEEP SEISMIC SOUNDING (DSS) DATA* (EAR-8908612); 15 MONTHS $19,000

HOLLISTER, LINCOLN S, *THE METAMORPHIC AND MAGMATIC HISTORY OF THE COAST PLUTONIC COMPLEX, BRITISH COLUMBIA* (EAR-8801464); 12 MONTHS $40,000

PHINNEY, ROBERT A, *COCORP EXTENDED RESEARCH PROGRAM* (EAR-8907104); 24 MONTHS $44,000

BONINI, WILLIAM E, *GRAVITY STUDY OF HEARTSOCK RANGE AND PAULY MONTANA WYOMING* (EAR-8907104); 12 MONTHS $29,400

BAIRD, DONALD, *A DINOSAUR NESTING GROUND BOSS, JUVENILES AND SOCIAL STRUCTURE* (EAR-8907047); 12 MONTHS $39,000

FISCHER, ALFRED G, *HISTORY OF AN UNSTABLE SEA, ANALYSIS OF MID-CRETACEOUS EVENTS IN A BITUMINOUS SHALE CORE FROM COLORADO* (EAR-8908902); 24 MONTHS $33,000

HARGRAVES, ROBERT B, *RESEARCH IN PALEO AND ROCK MAGNETISM* (EAR-8908901); 12 MONTHS $71,200

RUTGERS UNIVERSITY

CARR, MICHAEL J, *MAGMATIC EVOLUTION OF ACTIVE VOLCANOES IN CENTRAL AMERICA* (EAR-8907250); 36 MONTHS $60,000

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

INGENE, MARC W, AND NORMAN, DAVID I, *GEOCHEMISTRY AND MINERALOGY OF THE CREEDE FORMATION, CREEDE, COLORADO* (EAR-7910744); 24 MONTHS $54,200

CONDIE, KENT C, *ORIGIN OF A PROTEROZOIC GRANITE-GREENSTONE TERRANE NEAR TAOS, NEW MEXICO* (EAR-7909911); 36 MONTHS $66,100

NEW MEXICO STATE UNIVERSITY

SWANBERG, CHANDLER A, *GEOCHEMICAL/HEAT FLOW STUDIES IN MEXICO* (EAR-7908869); 12 MONTHS $30,000

UNIVERSITY OF NEW MEXICO

ELSTON, WOLFGANG D, *CENOZOIC VOLCANISM AND EXTENSIONAL ORIGENY IN THE NEW MEXICO SEGMENT OF THE BASIN AND RANGE PROVINCE* (EAR-8907536); 36 MONTHS $100,000

NEW YORK

ADELPHI UNIVERSITY

LUND, RICHARD, *POROS, CRINOIDAL STRATA FROM THE CARBONIFEROUS OF MONTANA* (OCE-7910407); 24 MONTHS $33,000

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

KING, KENNETH J, *PORES, PROTEINS, CHEMICAL REACTIONS AND GEOCHRONOLOGIC APPLICATIONS* (OCE-7908427 A01); 12 MONTHS $34,400

SLAWECKERT, RICHARD A, SNYDER, WALTER S, AND SCHNEIDER, B CHARLOT, *TECTONIC EVOLUTION OF A LATE PALEOZOIC INLAND ARC AND ITS BASEMENT, NORTHERN SIERRA NEVADA, CALIFORNIA* (EAR-7916779 A01); 12 MONTHS $54,614

SYKES, LYNN R, *INTRAPLATE EARTHQUAKES AND OTHER INTRAPLATE PHENOMENA* (EAR-7908719 A03); 12 MONTHS $50,000

DALZIEL, IAN W, *GEOLOGIC AND PETROLOGIC STUDIES IN SOUTHERN CHILE: DETAILED STUDIES IN SELECTED AREAS OF AN ACTIVE PLATE MARGIN* (EAR-7908369 A01); 12 MONTHS $32,000

ENGELDER, J T, *COLLABORATIVE RESEARCH ON SOLUTION CLEAVAGE AND STRAIN PARTITIONING IN THE APPALACHIAN PIEDMONT FOLD BELT* (EAR-7910540 A01); 24 MONTHS $61,100

BRUICKNER, HANNES K, SNYDER, WALTER S, AND SLAWECKERT, RICHARD A, *RB-SR DATING OF CHERT: A POTENTIAL CHRONOMETRICAL TOOL* (EAR-7911180); 12 MONTHS $39,000

SYKES, LYNN R, *WWSSN FILM CHIP FACILITY* (EAR-7910666); 24 MONTHS $34,700

SEEBER, LEONARDO, AND ARMBRUSTER, JOHN, *SEISMICITY AND TECTONICS IN PAKISTAN USING EXISTING SEISMIC NETWORK DATA AND THEIR IMPLICATION FOR EARTHQUAKE PREDICTION* (EAR-7914666); 12 MONTHS $40,000

MCCANN, WILLIAM R, AND SYKES, LYNN R, *SEISMIC GAPS, PRECURSORY SEISMICITY PATTERNS AND RECURRENCE TIMES OF LARGE EARTHQUAKES ALONG CONVERGENT PLATE BOUNDARIES* (EAR-7908550); 12 MONTHS $60,371

SYKES, LYNN R, AND TALWANI, MANIK, *THIRD BIANNUAL REVIEW SYMPOSIUM EARTHQUAKE PREDICTION* (EAR-7908370); 12 MONTHS $50,000

KUO, JOHN T, *THE VARIATION OF GRAVITY AND THE OCCURRENCE OF EARTHQUAKES IN THE PEKING AND TSINTUN REGION IN CHINA* (EAR-8801401); 12 MONTHS $140,000

SNIDELAR, TERRY, *CONFERENCE ON THE ROLE OF PRESSURE SOLUTION AND DISSOLUTION PHENOMENA IN GEOLOGY: AN INTERDISCIPLINARY CONFERENCE*, NEW PLATE, NEW YORK, MAY 10-11, 1988 (EAR-8806331); 3 MONTHS $4,700

RICHARDS, PAUL G, DAS, SHAMITA, AND SCHOLZ, CHRISTOPH H, *FUNDAMENTAL STUDIES OF HYDRAULICALLY EARTHQUAKE FAULTING MODELS* (EAR-8801436); 12 MONTHS $70,000

KENT, DENNIS V, AND OPDYKE, NEIL D, *PALEOMAGNETIC INVESTIGATIONS OF THE ORIGIN OF THE ACADIA DISPLACED TERRAIN IN THE NORTHERN APPALACHIANS* (EAR-8907104); 12 MONTHS $60,100

CORNELL UNIVERSITY

CHOW, JOHN J, *FIVE MILLION YEARS IN THE EVOLUTION OF MARINE BENTHIC ORGANISMS* (OCE-7907714 A01); 12 MONTHS $14,700

BIRD, JOHN M, *FIELD AND LABORATORY STUDIES OF ANORTHOSITE* (EAR-7910730); 12 MONTHS $37,000

MCBRIDE, M B, *INTERACTIONS OF METAL-ORGANIC COMPLEXES WITH CLAY MINERAL AND OXIDE SURFACES IN AQUEOUS SOLUTION* (EAR-7908896); 12 MONTHS $36,100

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

BASSETT, WILLIAM A; *INVESTIGATION OF THE OXIDATION STATES OF IRON AND OTHER ELEMENTS UP TO 300 KBAR AND 2000 DEGREES CENTIGRADE (EAR-7804387 A01)*; 24 MONTHS $23,500

OLIVER, JACK E, KAUFMAN, SIDNEY, AND BROWN, LARRY D; *SEISMIC REFLECTION PROFILING OF THE CONTINENTAL BASEMENT (EAR-7823672 A01)*; 12 MONTHS $2,071,800

OLIVER, JACK E, KAUFMAN, SIDNEY, AND BROWN, LARRY D; *STRUCTURE AND TECTONICS OF THE CONTINENTAL LITHOSPHERE FROM ANALYSIS OF SEISMIC REFLECTION RECORDS (EAR-7823673 A01)*; 12 MONTHS $64,500

TURCOTTE, DONALD L; *STUDY OF MEMBRANE AND THERMAL STRESSES IN THE LITHOSPHERE (EAR-7919414)*; 24 MONTHS $54,800

TURCOTTE, DONALD L, AND TORRANCE, KENNETH E; *NUMERICAL STUDIES OF MANTLE CONVECTION (EAR-7919421)*; 12 MONTHS $30,200

KAY, ROBERT W; *REGIONAL PETROLOGY AND STRUCTURE OF THE LOWER CRUST. A STUDY OF XENOLITHS FROM DIFFERENT TECTONIC ENVIRONMENTS (EAR-7919719*)*; 12 MONTHS $22,500

KOHLSTEDT, DAVID L; *STRUCTURE AND RHEOLOGY OF MANTLE MATERIALS. PARTIALLY MOLTEN ROCKS AND SINGLE CRYSTAL OLIVINE (EAR-7919725)*; 24 MONTHS $125,000

BASSETT, WILLIAM A; *DETERMINATION OF ELASTIC PROPERTIES IN GEOPHYSICAL MATERIALS BY BRILLOUIN AND RAMAN SCATTERING AT HIGH PRESSURES IN THE DIAMOND CELL (EAR-7919978)*; 24 MONTHS $69,700

KAY, ROBERT W, AND KAY, SUZANNE M; *ALEUTIAN ARC MAGMATISM IN SPACE AND TIME: A GEOCHEMICAL AND PETROLOGIC STUDY (EAR-8007751)*; 24 MONTHS $15,000

HUNTER COLLEGE

RIGOTTI, PETER A; *PALEOINTENSITY DETERMINATIONS DERIVED FROM TRIASSIC/JURASSIC IGNEOUS ROCKS OF NORTHEASTERN NORTH AMERICA (EAR-7926024)*; 12 MONTHS $24,700

NEW YORK UNIVERSITY

HEUSSER, CALVIN J; *QUATERNARY ENVIRONMENTS AND PLANT GEOGRAPHY OF SOUTHERN CHILE (ATM-7817048 A01*)*; 12 MONTHS $15,000

BURRIDGE, ROBERT; *ELASTICITY AND FRACTURE PROBLEMS IN SEISMOLOGY (EAR-8007816)*; 24 MONTHS $70,000

STATE UNIVERSITY AT ALBANY

DEWEY, JOHN F; *STRUCTURAL AND TECTONIC EVOLUTION OF THE POTURGE MASSIF, EASTERN ANATOLIA (EAR-7910729)*; 24 MONTHS $67,828

MEANS, WINTHROP D; *TECTONIC SIGNIFICANCE AND HISTORY OF STRUCTURE IN DUCTILE SHEAR ZONES (EAR-8007812)*; 12 MONTHS $27,300

STATE UNIVERSITY AT BINGHAMTON

ENOS, PAUL; *LITHIFICATION HISTORY OF PLATFORM AND BASINAL LIMESTONES, MEXICO (EAR-7903960 A01)*; 12 MONTHS $30,000

ANDERSON, JAMES R; *PATHS OF METAMORPHISM AND THE POLYMETAMORPHIC SEQUENCE OF THE PALEOZOIC AND PRECAMBRIAN ROCKS OF NORTHWESTERN NEW ENGLAND (EAR-7904041 A01)*; 20 MONTHS $41,888

STATE UNIVERSITY AT BUFFALO

GIESE, ROSSMAN F; *EXPERIMENTAL AND THEORETICAL STUDY OF CATION ORDER/DISORDER IN PHYLLOSILICATES (EAR-7911924)*; 24 MONTHS $135,000

STATE UNIVERSITY AT STONY BROOK

LINDSLEY, DONALD H; *PHASE EQUILIBRIA OF PHROXENES, AMPHIBOLE, AND FE-TI OXIDES (EAR-7622129 A03)*; 12 MONTHS $52,000

BENCE, ALFRED E; *SCANNING TRANSMISSION ELECTRON MICROSCOPE FACILITY (EAR-7713041 A01)*; 12 MONTHS $101,200

PREWITT, CHARLES T; *SYSTEMATIC RELATIONS AMONG CRYSTALLOGRAPHIC, CHEMICAL, AND ELASTIC PROPERTIES OF MINERALS (EAR-7713042 A01)*; 24 MONTHS $153,700

PAPIKE, JAMES J; *METASEDIMENTARY SEQUENCES: CRYSTAL CHEMISTRY, MINERALOGY AND PETROLOGY (EAR-7723150 A01)*; 12 MONTHS $43,600

LIEBERMANN, ROBERT C, AND WEIDNER, DONALD J; *ELASTICITY OF POLYCRYSTAL AND SINGLE CRYSTAL SPECIMENS OF MINERALS SYNTHESIZED AT HIGH PRESSURE (EAR-7812941 A01)*; 12 MONTHS $75,100

DODD, ROBERT T; *PETROLOGY OF UNEQUILIBRATED ORDINARY CHONDRITES (EAR-7823850 A01)*; 12 MONTHS $33,800

SCHAEFFER, OLIVER A; *RARE GASES IN LUNAR ROCKS (EAR-7906956 A01)*; 24 MONTHS $80,200

SCHAEFFER, OLIVER A; *LASER 39AR - 40AR STUDIES OF TERRESTRIAL ROCKS (EAR-7919961)*; 12 MONTHS $35,400

HAGER, BRADFORD H; *STUDY OF THE DYNAMICS OF SUBDUCTED SLABS (EAR-7919976*)*; 24 MONTHS $45,000

PREWITT, CHARLES T; *X-RAY DIFFRACTOMETER FOR EXPERIMENTS AT HIGH TEMPERATURES AND PRESSURES (EAR-7924031)*; 12 MONTHS $78,000

LINDSLEY, DONALD H; *PHASE EQUILIBRIA OF LUNAR MAGMAS AND PYROXENE-LIQUID SYSTEMS (EAR-7926210)*; 12 MONTHS $23,000

HANSON, GILBERT N; *ORIGIN OF GRANITIC ROCKS IN ARCHEAN TERRANES (EAR-7926362)*; 12 MONTHS $33,500

MELOSH, H J; *NUMERICAL INVESTIGATION OF LITHOSPHERE TECTONICS (EAR-8003355)*; 7 MONTHS $23,200

WEIDNER, DONALD J; *ELASTICITY OF MANTLE MINERALS (EAR-8007819)*; 12 MONTHS $65,000

UNIVERSITY OF ROCHESTER

GOVE, HARRY E, AND PURSER, KENNETH H; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ADDITIONS TO THE TANDEM ACCELERATOR AT THE UNIVERSITY OF ROCHESTER FOR ULTRA-SENSITIVE PARTICLE IDENTIFICATION (PHY-7822698 A01*)*; 12 MONTHS $5,000

BRODY, EDWARD M; *DETERMINATION OF ELASTIC PROPERTIES AND MECHANISMS OF PHASE TRANSITION IN GEOPHYSICAL MATERIALS BY BRILLOUIN AND RAMAN SCATTERING ABOVE 100 KBARS IN A DIAMOND ANVIL CELL (EAR-7920068)*; 24 MONTHS $50,000

BASU, ASISH R, AND TATSUMOTO, MITSUNOBU; *PETROLOGY AND GEOCHEMISTRY OF ULTRABASIC ROCKS FROM THE EASTERN UNITED STATES (EAR-8011971)*; 12 MONTHS $18,000

NORTH CAROLINA

APPALACHIAN STATE UNIVERSITY

ABBOTT, RICHARD N; *THE INTERNAL STRUCTURE OF THE EASTERN PART OF THE SOUTH MOUNTAIN BATHOLITH, NOVA SCOTIA (EAR-8000255)*; 12 MONTHS $7,800

EAST CAROLINA UNIVERSITY

MAUGER, RICHARD L; *GEOLOGIC AND PETROLOGIC STUDIES OF THE SIERRA CALERA-DEL NIDO BLOCK AND NEARBY AREAS, CHIHUAHUA, MEXICO (EAR-7915240 A01)*; 20 MONTHS $54,651

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

WEED, STERLING B, BOWEN, LAWRENCE H, AND BUOL, STANLEY W; *CHARACTERIZATION BY MOSSBAUER SPECTROSCOPY, X-RAY DIFFRACTION, ELECTRON MICROSCOPY, AND SURFACE ACTIVITY OF IRON OXIDES IN SOIL CLAYS (EAR-7904834)*; 12 MONTHS $54,100

STODDARD, EDWARD F; *THE HALIFAX COUNTY COMPLEX: OCEANIC LITHOSPHERE IN THE EASTERN PIEDMONT OF NORTH CAROLINA (EAR-7919735*)*; 12 MONTHS $15,000

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

ROGERS, JOHN J; *PRECAMBRIAN OF SOUTH INDIA (EAR-7905723*)*; 12 MONTHS $128,000

OHIO

CASE WESTERN RESERVE UNIVERSITY

ARONSON, JAMES, AND MERTZMAN, STANLEY A; *CHEMICAL AND STRONTIUM ISOTOPIC VARIATIONS WITHIN LOW K, HIGH-ALUMINA OLIVINE THOLEIITE AS A FUNCTION OF AGE AND AREAL DISTRIBUTION OF THE N. W. PORTION OF THE UNITED STATES (EAR-7904524 A01)*; 12 MONTHS $29,000

ARONSON, JAMES, AND SAVIN, SAMUEL M; *ISOTOPIC INVESTIGATION INTO THE CONDITIONS AND TIMING OF SANDSTONE DIAGENESIS (EAR-7920064)*; 12 MONTHS $70,000

OHIO STATE UNIVERSITY

MERCER, JOHN H; *DATING LATE CENOZOIC GLACIATIONS IN SOUTHERN ARGENTINA (EAR-7711881 A02*)*; 12 MONTHS $24,964

MERCER, JOHN H; *LATE QUATERNARY CHRONOLOGY OF ICE-MARGINAL VARIATIONS IN THE EASTERN AND WESTERN CORDILLERAS OF PERU (EAR-7911189)*; 24 MONTHS $69,245

FOLAND, KENNETH A; *INVESTIGATION OF OXYGEN AND ALKALI DIFFUSION IN FELDSPAR (EAR-8020198)*; 12 MONTHS $33,500

UNIVERSITY OF CINCINNATI

MAYNARD, J B; *COMPOSITION OF FELDSPARS IN MODERN SANDS USING THE ELECTRON MICROPROBE (EAR-7903919)*; 24 MONTHS $23,574

JOHNSON, ARVID M; *MECHANISMS AND MECHANICS OF SOME FAULT-RELATED FOLDS IN THE CENTRAL AND SOUTHERN APPALACHIANS (EAR-8000053)*; 12 MONTHS $40,900

WRIGHT STATE UNIVERSITY

GREGOR, C B; *CONFERENCE ON CHEMICAL CYCLES IN THE EVOLUTION OF THE EARTH, ANTIOCH COLLEGE, YELLOW SPRINGS, OHIO, MARCH 16 - 22, 1980 (EAR-7918290*)*; 12 MONTHS $4,100

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

ZIDEK, JIRI; *BIOSTRATIGRAPHY OF LATE PALEOZOIC FISH SKELETAL REMAINS (EAR-7822055 A01)*; $38,564

SUTHERLAND, PATRICK K; *COMPARATIVE BIOSTRATIGRAPHY OF THE LOWER AND MIDDLE PENNSYLVANIAN SYSTEM IN THE SOUTHERN MIDCONTINENT, NORTH AMERICA (EAR-7926336)*; 12 MONTHS $44,200

OREGON

OREGON STATE UNIVERSITY

HART, ROGER A, AND DYMOND, JACK R; *K-AR STUDIES OF CHERTS AND EVAPORITES (EAR-7823569 A01)*; 12 MONTHS $34,000

BOUCOT, ARTHUR J; *GLOBAL GEOLOGY OF SILURIAN-DEVONIAN ROCKS AND ASSOCIATED INVERTEBRATE FAUNAS, ESPECIALLY BRACHIOPODS (EAR-7919993)*; 12 MONTHS $62,918

JOHNSON, J G; *A STANDARD BIOSTRATIGRAPHIC SEQUENCE FOR THE DEVONIAN IN WESTERN NORTH AMERICA (EAR-7926094)*; 12 MONTHS $42,002

UNIVERSITY OF OREGON - EUGENE

KAYS, M; *GEOCHEMISTRY OF THE XENOLITHS AND GRANOPHYRES IN THE MARGINAL BORDER OF THE SKAERGAARD INTRUSION AND THEIR RELATION TO THE SURROUNDING ROCKS (EAR-7810487 A02)*; $700

WAFF, HARVE S; *EFFECTS OF PRESSURE ON CATIONIC COORDINATION TRANSFORMATIONS IN MAGMATIC LIQUIDS (EAR-7818890 A02)*; $7,000

HOLSER, WILLIAM T; *EVOLUTIONARY EVENTS IN THE EARLY TRIASSIC OCEAN: A GEOCHEMICAL SURVEY OF THE WESTERN INTERIOR, U. S. A. (EAR-7821819 A01)*; 12 MONTHS $103,300

SAVAGE, NORMAN M; *PALEOZOIC BIOSTRATIGRAPHIC STUDIES ON PRINCE OF WALES ISLAND AND NEARBY ISLANDS, SOUTHEASTERN ALASKA (EAR-7903007 A01)*; 12 MONTHS $49,300

MC BIRNEY, ALEXANDER R; *INVESTIGATION OF THE PHYSICAL PROPERTIES OF PARTLY MOLTEN IGNEOUS ROCKS (EAR-7908458)*; 12 MONTHS $56,800

GOLES, GORDON G; *A GEOCHEMICAL STUDY OF SMALL ANORTHOSITIC MASSES OF THE ADIRONDACKS: POSSIBLE KEYS TO GENESIS OF MASSIF TYPE ANORTHOSITE (EAR-7920336)*; 12 MONTHS $10,200

RICE, JACK M; *METAMORPHISM AND MIXED-VOLATILE EQUILIBRIA OF CALC-SILICATE AND RELATED ROCKS (EAR-7922877)*; 12 MONTHS $44,100

WAFF, HARVE S; *ELECTRICAL CONDUCTIVITY OF MAGMAS AT HIGH PRESSURES (EAR-8009529)*; 24 MONTHS $73,000

WAFF, HARVE S; *STUDIES OF THE STRUCTURE AND PHYSICAL PROPERTIES OF SILICATE MELTS (EAR-8010726)*; 24 MONTHS $25,000

PENNSYLVANIA

ALLEGHENY COLLEGE

WRIGHT, THOMAS O; *IPA MOBILITY ASSIGNMENT (THOMAS WRIGHT) (EAR-7923747 A01)*; $1,476

WRIGHT, THOMAS O; *IPA MOBILITY ASSIGNMENT (THOMAS WRIGHT) (EAR-7923747 A02)*; $1,221

BRYN MAWR COLLEGE

CRAWFORD, MARIA L; *COLLABORATIVE RESEARCH ON FLUID COMPOSITIONS AND DENSITIES IN METAMORPHIC ROCKS BY FLUID INCLUSION STUDIES (EAR-7803349 A01)*; 24 MONTHS $47,500

LEHIGH UNIVERSITY

SCLAR, CHARLES B; *AUTOMATED POWDER DIFFRACTOMETER AND ANCILLARY EQUIPMENT (EAR-7920414)*; 12 MONTHS $65,000

PENNSYLVANIA STATE UNIVERSITY

BARNES, H L; *HYDROTHERMAL ORE-FORMING REACTIONS (EAR-7713073 A03)*; 12 MONTHS $51,900

SPACKMAN, WILLIAM; *MODERN ORGANIC SEDIMENTS AND THEIR RELATIONSHIPS TO CARBONACEOUS ROCKS AND ROCK SEQUENCES (EAR-7715074 A02)*; 12 MONTHS $57,829

OHMOTO, HIROSHI; *RESEARCH PROJECT ON THE GENESIS OF VOLCANOGENIC MASSIVE SULFIDE DEPOSITS (EAR-7817738 A02)*; $7,200

OHMOTO, HIROSHI; *RESEARCH PROJECT ON THE GENESIS OF VOLCANOGENIC MASSIVE SULFIDE DEPOSITS (EAR-7817738 A03)*; 12 MONTHS $203,550

BLENCOE, JAMES G; *ION-EXCHANGE EXPERIMENTAL INVESTIGATIONS OF THE THERMODYNAMIC EXCESS PROPERTIES OF BINARY ALKALI FELDSPAR, NEPHELINE-KALSILITE AND PLAGIOCLASE CRYSTALLINE SOLUTIONS (EAR-7822443 A01)*; 12 MONTHS $35,000

TSONG, I S T, AND TRESSLER, RICHARD E; *THE EFFECT OF HYDROGEN AND/OR WATER CONTENT ON THE DEFORMATION MECHANISMS IN OLIVINE (EAR-7822746 A01)*; 12 MONTHS $32,000

VOIGHT, BARRY; *TECTONICS OF THE TJORNES FRACTURE ZONE AND LITHOSPHERIC NECKING, NORTHERN ICELAND (EAR-7904268 A01)*; 12 MONTHS $47,500

TRAVERSE, ALFRED; *PALYNOLOGICAL BIOSTRATIGRAPHY OF CONTINENTAL UPPER TRIASSIC-LOWER JURASSIC ROCKS OF NORTH AMERICA (EAR-7905718)*; 24 MONTHS $69,939

BURNHAM, C W, AND LANGSTON, CHARLES A; *DIGITIZER AND PLOTTER FOR GENERAL DEPARTMENT USE (EAR-7918516)*; 12 MONTHS $15,000

MARTIN, RANDOLPH J; *EFFECT OF STRESS ON MAGNETIC SUSCEPTIBILITY AND REMANENT MAGNETIZATION (EAR-7919534)*; 12 MONTHS $40,000

LANGSTON, CHARLES A; *STRESS FIELD CHARACTERISTICS AND DETAILED SOURCE MECHANISMS BY TIME DOMAIN MODELING OF BODY AND SURFACE WAVES FROM RESERVOIR RELATED EARTHQUAKE SEQUENCES (EAR-7919915)*; 12 MONTHS $35,000

MARTIN, RANDOLPH J; *LABORATORY INVESTIGATION OF PORE PRESSURE STABILIZATION OF FAILURE (EAR-7920838)*; 24 MONTHS $42,100

WHITE, WILLIAM B; *STRUCTURAL CHARACTERIZATION OF MINERALS BY RAMAN SPECTROSCOPY (EAR-7921352)*; 12 MONTHS $37,000

WRIGHT, LAUREN A; *STRATIGRAPHIC-TECTONIC EVOLUTION OF THE SOUTHWESTERN PART OF THE GREAT BASIN, CALIFORNIA-NEVADA (EAR-7927092)*; 12 MONTHS $37,700

GRAHAM, EARL K; *EQUATION OF STATE OF FUNDAMENTAL EARTH-FORMING MATERIALS II (EAR-8007637)*; 12 MONTHS $36,800

LASAGA, ANTONIO C; *THEORETICAL, EXPERIMENTAL AND FIELD STUDY OF DIFFUSION AND GROWTH IN METAMORPHISM AND SILICATE MELTS (EAR-8007755)*; 12 MONTHS $48,300

OHMOTO, HIROSHI; *STABLE ISOTOPE GEOCHEMISTRY OF HYDROTHERMAL SYSTEMS (EAR-8007839)*; 12 MONTHS $56,300

TEMPLE UNIVERSITY

ULMER, GENE C; *THE ROLE OF OXYGEN FUGACITY IN THE PETROGENESIS OF THE PLATINIFEROUS ZONES OF THE STILLWATER COMPLEX, MONTANA (EAR-7916238*)*; 12 MONTHS $7,000

UNIVERSITY OF PENNSYLVANIA

FAUL, HENRY; *FISSION-TRACK TECTONICS: STUDY OF REGIONAL UPLIFT PATTERNS WITH FISSION-TRACK PALEOTHERMOMETRY (EAR-7700790 A01)*; 12 MONTHS $36,400

OHASHI, YOSHIKAZU; *ENERGETICS OF CRYSTALLINE MATERIALS RELATED TO MINERALOGICAL PROBLEMS (EAR-7715703 A01)*; 24 MONTHS $69,200

FOLAND, KENNETH A; *INVESTIGATION OF OXYGEN AND ALKALI DIFFUSION IN FELDSPAR (EAR-7911173)*; 12 MONTHS $46,300

UNIVERSITY OF PITTSBURGH

DAWSON, MARY R; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8016876)*; 12 MONTHS $1,125

RHODE ISLAND

BROWN UNIVERSITY

RICE, JAMES R; *FUNDAMENTAL STUDIES ON FAULT MECHANICS AND EARTHQUAKE PRECURSORY PROCESSES (EAR-7812948 A01)*; 24 MONTHS $90,000

HESS, PAUL C; *SOLUTION THEORIES OF SILICATE MELTS: AN EXPERIMENTAL AND THEORETICAL STUDY (EAR-7905726 A01)*; 12 MONTHS $38,200

RUTHERFORD, MALCOLM J; *EQUILIBRIUM AND FRACTIONAL CRYSTALLIZATION OF LUNAR MAGMAS: COTECTIC AND SULPHUR SOLUBILITIES (EAR-7908511 A01)*; 12 MONTHS $57,100

HERMANCE, JOHN F; *REGIONAL VARIATIONS IN THE ELECTRICAL CONDUCTIVITY OF THE UPPER MANTLE FROM GLOBAL MAGNETIC DATA (EAR-7911283)*; 12 MONTHS $40,000

FORSYTH, DONALD W; *UPPER MANTLE HETEROGENEITY: CORRELATIONS BETWEEN SURFACE WAVE VELOCITY, RESIDUAL DEPTH, GRAVITY, AND GEOID ANOMALIES (EAR-7911793)*; 12 MONTHS $42,300

GILETTI, BRUNO J; *COLLABORATIVE EFFORT: MIT-BROWN-HARVARD REGIONAL ION MICROPROBE FACILITY (EAR-7921459)*; 12 MONTHS $45,100

GILETTI, BRUNO J; *KINETIC STUDIES OF GEOLOGICAL PROCESSES (EAR-7921460)*; 12 MONTHS $99,500

RUTHERFORD, MALCOLM J; *ELECTRON MICROPROBE AUTOMATION AND CONVERSION TO COMBINED ED AND WD ANALYSIS - AN EQUIPMENT PROPOSAL (EAR-7923936)*; 12 MONTHS $32,500

TULLIS, JAN; *EXPERIMENTALLY DETERMINED RELATIONS BETWEEN FLOW STRESS AND MICROSTRUCTURES FOR QUARTZ AND FELDSPAR (EAR-7926348)*; 12 MONTHS $50,000

YUND, RICHARD A; *KINETICS AND MECHANISMS OF SELECTED MINERALOGICAL PROCESSES (EAR-7926370)*; 12 MONTHS $69,800

MATTHEWS, R K; *CARBONATE DIAGENESIS: CHARACTERIZATION OF MIXING ZONE PRODUCTS AND KINETICS OF THEIR FORMATION (EAR-7927162)*; 12 MONTHS $34,300

GROMET, L P; *PETROLOGICAL AND GEOCHEMICAL STUDIES ON THE ST. URBAIN ANORTHOSITE, QUEBEC, CANADA (EAR-8009324)*; 24 MONTHS $35,700

UNIVERSITY OF RHODE ISLAND

SCHILLING, JEAN-GUY; *GEOCHEMICAL STUDY OF ULTRAPOTASSIC LAVAS FROM LEUCITE HILLS, WYOMING AND OTHER CONTINENTAL REGIONS (EAR-7816617 A01)*; 12 MONTHS $38,200

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

COHEN, ARTHUR D; *GEOLOGIC AND COAL PETROLOGIC INVESTIGATIONS OF THE PEAT DEPOSITS OF THE OKEFENOKEE SWAMP (EAR-7926382)*; 12 MONTHS $57,100

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

WALKER, KENNETH R; *BIOSTRATIGRAPHY AND PALEOECOLOGY OF MIDDLE ORDOVICIAN CARBONATE ROCKS OF THE SOUTHERN APPALACHIANS (EAR-7927268)*; 12 MONTHS $42,500

TEXAS

NORTH TEXAS STATE UNIVERSITY

HALL, STEPHEN A; *HOLOCENE VEGETATION AND CLIMATE IN THE SOUTHERN ROCKY MOUNTAINS OF NEW MEXICO (EAR-7911158)*; 12 MONTHS $7,087

RICE UNIVERSITY

AVE LALLEMANT, HANS G; *ORIGIN OF THE OPHIOLITES OF EASTERN OREGON AND ITS IMPLICATION ON PLATE-TECTONIC MODELS OF THE LATE PALEOZOIC AND EARLY MESOZOIC CORDILLERAN OROGEN (EAR-7904829 A01)*; 12 MONTHS $34,400

LEEMAN, WILLIAM P; *GEOCHEMISTRY AND PETROLOGY OF MOUNT ST. HELENS VOLCANO, WASHINGTON (EAR-7919998)*; 24 MONTHS $59,000

SOUTHERN METHODIST UNIVERSITY

DUNGAN, MICHAEL A; *A SPECIAL VOLUME OF THE AMERICAN JOURNAL OF SCIENCE DEDICATED TO EVERETT D. JACKSON (EAR-7926206)*; 12 MONTHS $11,000

TEXAS A & M UNIVERSITY

STANTON, ROBERT J; *BIOSTRATIGRAPHY AND PALEOECOLOGY OF THE NEOGENE OF THE HUMBOLDT BASIN (EAR-7709834 A01)*; 24 MONTHS $50,400

FRIEDMAN, MELVIN; *FOLDING AND FAULTING OF ROCKS UNDER CONFINING PRESSURE (EAR-7713097 A01)*; 24 MONTHS $82,622

UNIV OF TEXAS AT AUSTIN-MARINE SCIENCE INSTITUTE AT GALVESTON

FROHLICH, CLIFF; *PRECISE LOCATIONS OF EARTHQUAKES IN MEXICO AND CENTRAL AMERICA (EAR-7915249)*; 12 MONTHS $20,000

GOSE, WULF A; *A PALEOMAGNETIC STUDY OF SEDIMENTARY ROCKS FROM JAMAICA (EAR-7919722)*; 12 MONTHS $45,000

LATHAM, GARY V; *SCLEROCHRONOMETRY OF RECURRING COSEISMIC UPLIFTS (EAR-7919912)*; 12 MONTHS $26,705

UNIV OF TEXAS AT AUSTIN

PENNINGTON, WAYNE D; *STUDIES INVOLVING THE BUCARAMANGA, COLOMBIA, INTERMEDIATEDEPTH EARTHQUAKE NEST (EAR-8009239)*; 18 MONTHS $40,800

UNIV OF TEXAS AT DALLAS

PESSAGNO, EMILE L; *INVESTIGATIONS OF UPPER TRIASSIC AND JURASSIC RADIOLARIA AND RADIOLARIAN BIOSTRATIGRAPHY IN THE NEVADIAN COMPLEX (EAR-7812934 A01)*; 12 MONTHS $36,705

MITTERER, RICHARD M; *EPIMERIZATION OF ISOLEUCINE: KINETICS AND GEOLOGICAL APPLICATIONS (EAR-7823408 A01)*; 12 MONTHS $31,600

WARD, RONALD W; *COCORP EXTENDED RESEARCH PROGRAM: FIELD DATA ACQUISITION (EAR-8008324)*; 12 MONTHS $110,000

UNIV OF TEXAS AT EL PASO

ROY, R F, AND KELLER, G R; *AN INTEGRATED GEOPHYSICAL STUDY OF THE SOUTHERN OKLAHOMA AULACOGEN (EAR-8005773)*; 15 MONTHS $34,100

CLARK, KENNETH F; *DATA DISSEMINATION ON THE GEOLOGY AND MINERAL RESOURCES OF THE SIERRA MADRE OCCIDENTAL (INT-8024625*)*; 24 MONTHS $15,000

UNITED KINGDOM

UNIVERSITY OF READING

HUGHES, A A; *PARTIAL SUPPORT OF THE INTERNATIONAL SEISMOLOGICAL CENTRE (EAR-7900662 A01)*; 12 MONTHS $61,200

UTAH

BRIGHAM YOUNG UNIVERSITY

HAMBLIN, W K, AND BEST, MYRON G; *LATE CENOZOIC GEODYNAMICS OF THE EASTERN BASIN AND RANGE PROVINCE (EAR-7919311 A01)*; 20 MONTHS $39,502

UNIVERSITY OF UTAH

ARABASZ, WALTER J, AND SMITH, ROBERT B; *SEISMOLOGICAL STUDIES ACROSS THE BASIN AND RANGE-COLORADO PLATEAU TRANSITION IN UTAH (EAR-8008799)*; 24 MONTHS $75,000

WEBER STATE COLLEGE

ASH, SIDNEY R; *CORRELATION OF CONTINENTAL UPPER TRIASSIC AND LOWER JURASSIC ROCKS IN NORTH AMERICA WITH PLANT MEGAFOSSILS, PHASE I (EAR-7904097)*; 24 MONTHS $51,100

VIRGINIA

AMERICAN GEOLOGICAL INSTITUTE

DAVIS, JOHN C; *U.S. PARTICIPATION IN THE INTERNATIONAL GEOLOGICAL CORRELATION PROGRAM (EAR-7926766)*; 18 MONTHS $68,900

UNIVERSITY OF VIRGINIA

NORDSTROM, DARRELL K; *KINETIC, ISOTOPIC, AND MICROBIAL INVESTIGATION OF SULFIDE MINERAL OXIDATION AND ACID MINE WATER FORMATION (EAR-7911144*)*; 12 MONTHS $44,600

GOLDSTEIN, SAMUEL J; *DECELERATION OF EARTH'S ROTATION FROM OLD SOLAR OBSERVATIONS (EAR-8006304)*; 12 MONTHS $10,000

VIRGINIA POLYTECHNIC INSTITUTE

RIBBE, PAUL H, AND GIBBS, GERALD V; *STRUCTURE AND BONDING IN MINERALS (EAR-7723114 A02)*; 12 MONTHS $66,200

SNOKE, J A; *SEISMIC SOURCE STUDIES (EAR-7801786 A01)*; 24 MONTHS $19,100

WONES, DAVID R; *A PETROLOGICAL AND GEOCHEMICAL STUDY OF GRANITIC PLUTONS IN CENTRAL AND EASTERN MAINE (EAR-7803655 A02)*; 12 MONTHS $56,900

READ, JAMES F; *SEDIMENTOLOGICAL EVOLUTION OF CAMBRIAN-ORDOVICIAN CARBONATE SHELF, AND SIGNIFICANCE OF SHELF DEPOCENTERS, VIRGINIA (EAR-7911213 A01)*; 20 MONTHS $25,135

GRAY, DAVID R; *IMPLICATIONS OF INCREMENTAL STRAIN ANALYSIS FOR DEFORMATION PROCESSES IN OROGENIC ZONES (EAR-7919703)*; 12 MONTHS $25,779

BOLLINGER, G A, AND SNOKE, J A; *SEISMICITY STUDIES OF THE CENTRAL APPALACHIAN REGION (EAR-7923761)*; 12 MONTHS $21,300

BOLLINGER, G A, AND SNOKE, J A; *A DIGITIZING SYSTEM FOR SEISMIC DATA (EAR-7923766)*; 12 MONTHS $47,200

SINHA, AKHAURY K; *THE BEARING OF LEAD ISOTOPES ON THE ORIGIN OF GRANITIC ROCKS AND THEIR ZIRCON AGES (EAR-7926340)*; 24 MONTHS $69,900

GLOVER, LYNN I, AND COSTAIN, JOHN K; *SEISMIC REFLECTION MAPPING IN APPALACHIAN CORRIDORS (EAR-8009549)*; 12 MONTHS $92,800

CRAIG, JAMES R; *SULFIDE MINERALIZATION IN THE CENTRAL APPALACHIANS (EAR-8011418)*; 12 MONTHS $20,000

WASHINGTON

UNIVERSITY OF WASHINGTON

UGOLINI, FIORENZO C; *EFFECTS OF TIMBER HARVESTING ON THE PEDOLOGIC AND GEOCHEMICAL PROCESSES OF A SUBALPINE PODZOL, CASCADE RANGE, WASHINGTON (EAR-7725826 A02)*; 12 MONTHS $27,900

EVANS, BERNARD W; *PETROGENESIS OF ULTRAMAFIC ROCKS AND RELATED MINERAL PARAGENESES (EAR-7803350 A02)*; 12 MONTHS $34,300

STUIVER, MINZE; *STUDIES IN ISOTOPIC CARBON, WITH SPECIAL REFERENCE TO GEOCHRONOMETRICAL APPLICATIONS (EAR-7904523 A01)*; 12 MONTHS $40,000

BOOKER, JOHN R; *SIMULTANEOUS ESTIMATION OF EARTHQUAKE HYPOCENTERS AND SEISMIC VELOCITY STRUCTURE (EAR-7910605)*; 24 MONTHS $46,500

MERRILL, RONALD T; *PALEOMAGNETIC INPUT INTO DYNAMO MODELS FOR THE EARTH'S MAGNETIC FIELD (EAR-7918788)*; 24 MONTHS $35,200

RAYMOND, CHARLES F; *COLLABORATIVE RESEARCH ON SURGES OF VARIEGATED GLACIER (EAR-7919424)*; 12 MONTHS $59,500

RADKE, LAWRENCE F, AND HOBBS, PETER V; *AIRBORNE STUDIES OF ANTARCTIC AEROSOLS: VOLCANIC, MARINE AND ANTHROPOGENIC (DPP-7920857 A01*)*; $10,000

FORBES, ROBERT B, AND EVANS, BERNARD W; *PETROLOGIC AND STRUCTURAL STUDIES OF BLUESCHISTS AND ECLOGITES IN THE NOME GROUP TERRANE, ALASKA (EAR-8008856)*; 12 MONTHS $38,300

WESTERN WASHINGTON UNIVERSITY

BURMESTER, RUSSELL F, AND BECK, MYRL E; *PALEOMAGNETISM AND EARLY TERTIARY TECTONISM OF THE CHIWAUKUM GRABEN: GROCLINE, MICROCONTIENT, OR STABLE CRATON? (EAR-7919709)*; 20 MONTHS $40,000

BROWN, EDWIN H; *PETROLOGY, STRUCTURE AND GEOTECTONIC HISTORY OF THE SHUKSAN METAMORPHIC SUITE, NORTH CASCADES, WASHINGTON (EAR-7919734)*; 24 MONTHS $66,015

BECK, MYRL E; *PALEOMAGNETISM OF A THICK MIDDLE TERTIARY VOLCANIC SEQUENCE IN NORTHERN CALIFORNIA: TECTONIC ROTATION IN THE SOUTHERN CASCADES (EAR-7924598)*; 12 MONTHS $23,500

EASTERBROOK, DON J; *TEPHROCHRONOLOGY, PALEOMAGNETIC, AMINO ACID, AND RADIOCARBON DATING OF QUATERNARY DEPOSITS IN WASHINGTON (EAR-8008321)*; 24 MONTHS $18,900

WISCONSIN

MILWAUKEE PUBLIC MUSEUM

SHEEHAN, PETER M; *UPPER ORDOVICIAN STRATIGRAPHY AND BRACHIOPOD FAUNAS IN THE EASTERN GREAT BASIN (EAR-7901013)*; 24 MONTHS $48,985

UNIVERSITY OF WISCONSIN-MADISON

JACKSON, MARION L; *ORIGIN OF DETRITAL AND EXPANSIBLE CLAY MINERALS IN SOILS (EAR-7619783 A02)*; 24 MONTHS $41,000

BAILEY, STURGES W; *STRUCTURES OF LAYER SILICATE MINERALS (EAR-7805394 A02)*; 15 MONTHS $48,200

CAMERON, EUGENE N; *A FULLY AUTOMATED SCANNING ELECTRON MICROPROBE QUANTOMETER (SEMQ) (EAR-7901700)*; 12 MONTHS $167,000

GUIDOTTI, CHARLES V; *VOLUMES OF MIXING, CRYSTAL CHEMISTRY, AND P-T-X CONTROLS ON THE COMPOSITIONAL RANGES OF SOME IMPORTANT SOLID SOLUTION MINERALS OF PELITIC SCHISTS (EAR-7902597 A01)*; 12 MONTHS $48,300

MEYER, ROBERT P; *GEOPHYSICAL INVESTIGATION OF THE SLATE ISLANDS AREA OF LAKE SUPERIOR (EAR-7918008 A01)*; 12 MONTHS $50,100

CLAY, CLARENCE S; *SIGNAL ENHANCEMENT FOR TIME DOMAIN ELECTROMAGNETIC SOUNDINGS (EAR-7919718*)*; 12 MONTHS $10,000

BYERS, CHARLES W; *PALEOENVIRONMENTAL ANALYSIS OF LOWER CRETACEOUS SHALES OF THE WESTERN INTERIOR (EAR-7922088)*; 12 MONTHS $21,100

HASTENRATH, STEFAN L; *TROPICAL GLACIER SYSTEMS AND CLIMATE (EAR-7923897)*; 12 MONTHS $28,800

CLAY, CLARENCE S; *VIBROSEIS MEASUREMENTS ON THE NORTH AMERICAN CRATON (EAR-7926373*)*; 12 MONTHS $30,000

MEYER, ROBERT P; *ANALYSIS OF PROJECT ROSE DATA (EAR-8000048)*; 12 MONTHS $119,000

MEDARIS, L; *PETROGENESIS OF CRUSTAL GARNET PERIDOTITES IN WESTERN NORWAY (EAR-8007266)*; 24 MONTHS $27,500

WANG, HERBERT F; *LABORATORY STUDY OF FLUID FLOW AND DEFORMATION IN ROCK (EAR-8008291)*; 12 MONTHS $25,500

HAIMSON, BEZALEL C; *STRESS AND PERMEABILITY MEASUREMENTS IN PRECAMBRIAN GRANITE USING THE ILLINOIS DEEP HOLE (EAR-8016555)*; 12 MONTHS $50,000

UNIVERSITY OF WISCONSIN-MILWAUKEE

KEAN, WILLIAM F; *PALEOMAGNETISM OF SEDIMENTARY ROCKS AT THE ORDIVICIANSILURIAN BOUNDARY IN PARTS OF WISCONSIN, IOWA AND ILLINOIS (EAR-7920073)*; 12 MONTHS $18,900

UNIVERSITY OF WISCONSIN-OSHKOSH

MCKEE, JAMES W, AND JONES, NORRIS W; *MESOZOIC TECTONICS OF NORTHEASTERN MEXICO (EAR-7919969)*; 24 MONTHS $59,719

WYOMING

UNIVERSITY OF WYOMING

SMITHSON, SCOTT B; *INTERPRETATION OF SEISMIC REFLECTIONS FROM PRECAMBRIAN CRUST (EAR-7804439 A01)*; 24 MONTHS $70,000

STEIDTMANN, JAMES R; *ORIGIN AND SIGNIFICANCE OF EOLIAN LAG DEPOSITS (EAR-7905132 A01)*; 12 MONTHS $22,800

EUGSTER, HANS P, AND SHIVE, PETER N; *REDOX REACTIONS AND THE DIRECT MEASUREMENT OF HYDROGEN FUGACITIES IN SUPRA-CRITICAL FLUIDS (EAR-7919737)*; 24 MONTHS $31,400

MITRA, GAUTAM, FROST, B RONALD, AND SMITHSON, SCOTT B; *GEOLOGIC AND GEOPHYSICAL STUDIES OF ARCHEAN CRUST IN THE WIND RIVER MOUNTAINS: AN APPROACH TO UNDERSTANDING DEEP SEISMIC REFLECTIONS (EAR-7927161)*; 12 MONTHS $41,286

STEINER, MAUREEN B; *ACQUISITION OF REMANENCE IN SEDIMENTARY ROCKS: HEAVY MINERALS (EAR-8007820)*; 12 MONTHS $39,900

SURDAM, RONALD C; *A DIAGENETIC MODEL FOR THE MONTEREY FORMATION, PISMO SYNCLINE, CALIFORNIA (EAR-8007826)*; 12 MONTHS $25,000

OCEANOGRAPHY

ALASKA

UNIVERSITY OF ALASKA-FAIRBANKS-INSTITUTE OF MARINE SCIENCE

REEBURGH, WILLIAM S; *ISOTOPE STUDIES OF THE SULFATE-METHANE TRANSITION ZONE IN MARINE SEDIMENTS (OCE-7919250)*; 12 MONTHS $60,762

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

PATTERSON, CLAIR C; *THE OCCURRENCE OF COMMON LEAD IN THE OPEN OCEANS (OCE-7900696 A01)*; 4 MONTHS $47,376

SAN FRANCISCO STATE UNIVERSITY

PAMATMAT, MARIO M; *ANAEROBIC METABOLISM OF MARINE BENTHOS (OCE-8003197)*; 12 MONTHS $55,565

SCIENCE APPLICATIONS INC

WILLIAMS, GORDON O; *GROWTH AND DECAY OF THE INTERNAL WAVE SPECTRUM IN LAKE TAHOE (OCE-9013657)*; 22 MONTHS $124,997

STANFORD UNIVERSITY

VAN ANDEL, TJEERD H; *PALEOCEANOGRAPHY AND DEPOSITIONAL HISTORY OF THE OCEANS BASED ON DEEP SEA DRILLING PROJECT DATA (OCE-7908391)*; 24 MONTHS $50,564

UNIVERSITY OF CALIFORNIA, BERKELEY

SOUSA, WAYNE P; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (OCE-7913418)*; 24 MONTHS $6,350

HAND, CADET; *DOCTORAL DISSERTATION RESEARCH: THE REPRODUCTIVE AND POPULATION BIOLOGY OF THE SEA ANEMONE METRIDIUM SENILE (L.) ON THE COAST OF CENTRAL CALIFORNIA (OCE-7918132)*; 15 MONTHS $3,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

HAMNER, WILLIAM M; *ECOLOGY OF TROPICAL MACRO-ZOOPLANKTON (OCE-8008309)*; 12 MONTHS $43,848

UNIVERSITY OF CALIFORNIA, RIVERSIDE

SIMS, JAMES J; *INVESTIGATION OF THE CHEMICAL CONSTITUENTS OF MARINE ALGAE (CHE-7721364 A02*)*; 12 MONTHS $24,200

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

TSUCHIYA, MIZUKI; *PACIFIC UPPER WATER STRUCTURE (OCE-7808440 A02)*; 6 MONTHS $13,742

SMITH, KENNETH L; *BIOLOGICAL ENERGETICS OF THE DEEP-SEA BENTHIC BOUNDARY LAYER (OCE-7808640 A01)*; 12 MONTHS $78,685

SMITH, KENNETH L; *ECOLOGICAL ENERGETICS OF A HARD SUBSTRATE BENTHIC COMMUNITY ASSOCIATED WITH GEOTHERMAL VENTS OF THE GALAPAGOS RIFT (OCE-7808856 A02)*; $2,484

THOMAS, WILLIAM H; *INTERACTIONS BETWEEN MARINE PHYTOPLANKTON MEDIATED BY DISSOLVED ORGANIC SUBSTANCES (OCE-7809136 A02)*; 9 MONTHS $39,487

HESSLER, ROBERT R; *COMMUNITY STRUCTURE AND SMALL-SCALE DISTRIBUTION OF BENTHIC ORGANISMS IN THE GALAPAGOS RIFT AREA (OCE-7810460 A02)*; 12 MONTHS $31,943

FENICAL, WILLIAM H; *CHEMICAL DEFENSE IN MARINE ORGANISMS (OCE-7817202 A01)*; 12 MONTHS $66,346

REID, JOSEPH L; *A STUDY OF THE DEEP CIRCULATION OF THE WORLD OCEAN (OCE-7817318 A01)*; 12 MONTHS $82,357

WINANT, CLINTON D, AND DAVIS, RUSS E; *SEASONAL VARIABILITY OF COASTAL CURRENTS ON THE SOUTHERN CALIFORNIA SHELF (OCE-7819295 A01)*; 12 MONTHS $70,070

BERNSTEIN, ROBERT L; *THE SCRIPPS SATELLITE REMOTE SENSING FACILITY (OCE-7819888 A01*)*; 12 MONTHS $83,500

FILLOUX, JEAN H; *DENSE DIRECT OBSERVATIONS OF LONG-TERM PRESSURE FLUCTUATIONS ON THE OPEN OCEAN FLOOR (OCE-7825324 A01*)*; 12 MONTHS $35,000

CRAIG, HARMON, CHUNG, YU-CHIA, WILLIS, ROBERT D, AND LUPTON, JOHN E; *OCEAN-ATMOSPHERE INVESTIGATIONS (OCE-7825598 A01*)*; $14,800

BERGER, WOLFGANG H; *DEEP SEA CARBONATES: ACCUMULATION, DISSOLUTION, AND CARBON DIOXIDE FLUX (OCE-7825587 A01*)*; 12 MONTHS $102,898

HENDERSHOTT, MYRL C, AND WINANT, CLINTON D; *INTERNAL WAVES OVER SUBMARINE CANYON TOPOGRAPHY (OCE-7825636 A01)*; 24 MONTHS $55,518

BENSON, ANDREW A; *OCEANIC ARSENIC DETOXICATION: THE PATH OF ARSENIC IN MARINE FOOD CHAINS (OCE-7825707 A01)*; $2,027

RIEDEL, WILLIAM R; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: SCRIPPS INSTITUTION OF OCEANOGRAPHY (OCE-7827461 A01*)*; 12 MONTHS $20,125

YAYANOS, A A; *IN SITU AND LABORATORY STUDIES WITH DEEP-SEA AMPHIPODS AND SOME OF THEIR INTERACTIONS WITH MICROBES (OCE-7908972 A01)*; 24 MONTHS $121,945

FILLOUX, JEAN H; *MAGNETOTELLURIC EXPLORATION OF THE NORTH PACIFIC: IMPROVED RESOLUTION, DEEPER PENETRATION AND WESTWARD EXTENSION (OCE-7918332*)*; 12 MONTHS $80,300

RIEDEL, WILLIAM R, AND SANFILIPPO, ANNIKA B; *RADIOLARIAN STRATIGRAPHY, TAXONOMY AND EVOLUTION (OCE-7920265)*; 12 MONTHS $70,900

WEISS, RAY F; *TRACE GASES IN THE OCEAN AND ATMOSPHERE (OCE-7920859*)*; 12 MONTHS $55,192

DAVIS, RUSS E, AND WINANT, CLINTON D; *A PILOT STUDY OF COASTAL OCEAN CURRENTS OFF NORTHERN CALIFORNIA (OCE-7921783*)*; 12 MONTHS $77,112

SPIESS, FRED N; *EQUIPMENT GRANT: CONDUCTING TOW CABLE FOR DEEP-TOW INSTRUMENT SYSTEM (OCE-7922840*)*; 12 MONTHS $24,500

WILLIAMS, PETER M, AND CARLUCCI, ANGELO F; *STUDIES ON SEA-SURFACE FILMS: CHEMISTRY AND MICROBIOLOGY OF FILM FORMATION, COMPOSITION, AND ALTERATION (OCE-7925942*)*; 12 MONTHS $108,834

KENYON, KERN E; *ON THE PERMANENT CIRCULATION OF THE NORTH PACIFIC (OCE-7925962)*; 12 MONTHS $47,400

BRINTON, EDWARD; *DISTRIBUTION, POPULATION DYNAMICS, AND PRODUCTION IN CALIFORNIA CURRENT EUPHAUSIIDS (OCE-7926192)*; 24 MONTHS $82,516

ORCUTT, JOHN A; *SEISMICITY OF AN OCEANIC HYDROTHERMAL VENT AREA: EAST PACIFIC RISE, 21 DEGREES NORTH (OCE-7926438)*; 12 MONTHS $85,200

AZAM, FAROOQ; *ROLE OF BACTERIA IN PELAGIC MARINE DETRITAL FOOD CHAINS (OCE-7926458)*; 24 MONTHS $129,139

CRAIG, HARMON, LUPTON, JOHN E, CHUNG, YU-CHIA, AND WILLIS, ROBERT D; *OCEAN-ATMOSPHERE INVESTIGATIONS (OCE-7927284)*; 12 MONTHS $140,000

DAYTON, PAUL K; *CHEMICAL ECOLOGY AND THE STRUCTURE OF TEMPERATE SPONGE-DOMINATED ASSEMBLAGES (OCE-8008338)*; 24 MONTHS $47,806

MACDOUGALL, J DOUGLAS, AND LUGMAIR, GUNTER W; *ISOTOPIC STUDIES OF EAST PACIFIC RISE BASALTS (OCE-8009052)*; 12 MONTHS $47,252

MELVILLE, WALLACE K; *WAVE SHEAR-FLOW INTERACTION (OCE-8009461)*; 14 MONTHS $96,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

MILES, JOHN W; *GEOPHYSICAL FLUID DYNAMICS (OCE-7724005 A02*)*; 12 MONTHS $77,804

VAN ATTA, CHARLES W, HENDERSHOTT, MYRL C, AND HELLAND, KENNETH N; *LABORATORY SIMULATION OF TURBULENT, STRATIFIED SHEAR FLOWS OCCURRING IN THE OCEAN (OCE-7809060 A01)*; 24 MONTHS $126,905

SUESS, HANS E, AND DRUFFEL, ELLEN; *INVESTIGATIONS OF RADIOCARBON IN ANNUAL CORAL RINGS (OCE-7917652*)*; 12 MONTHS $31,415

MICHEL, ROBERT L, AND SUESS, HANS E; *INVESTIGATIONS OF OCEAN CIRCULATION USING THE BOMB-TRITIUM DISTRIBUTION IN THE PACIFIC AND ANTARCTIC OCEANS (OCE-7917654*)*; 12 MONTHS $50,148

MICHEL, ROBERT L; *TRITIUM DISTRIBUTION IN THE NORTHWEST PACIFIC (OCE-8008533*)*; 12 MONTHS $21,764

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

PREZELIN, BARBARA B; *LIGHT LIMITATION AND PRIMARY PRODUCTIVITY OF COASTAL RED TIDE PHYTOPLANKTON (OCE-7713919 A01)*; 24 MONTHS $95,763

CHILDRESS, JAMES J; *STUDIES ON THE ECOLOGICAL PHYSIOLOGY OF MIDWATER CRUSTACEANS (OCE-7808933 A02)*; 20 MONTHS $119,026

ROBISON, BRUCE H; *A STUDY OF THE VERTICAL TRANSPORT OF ORGANIC MATERIAL IN THE OCEANIC WATER COLUMN BY MIDWATER FISHES (OCE-7809018 A02)*; 8 MONTHS $32,174

CHARTERS, ALEXANDER C; *STUDIES OF HYDRODYNAMIC INTERACTIONS BETWEEN MARINE PLANTS AND THE WATER AROUND THEM (OCE-7909241 A01)*; 21 MONTHS $119,025

EBELING, ALFRED W; *ENVIRONMENTAL REGULATION OF THE ABUNDANCE OF SURFPERCH ON A TEMPERATE REEF (OCE-7925008)*; 24 MONTHS $89,231

JOHNSON, KENNETH S; *ENZYMATIC ENHANCEMENT OF THE CARBON DIOXIDE FLUX ACROSS THE AIR-SEA INTERFACE (OCE-8008233)*; 18 MONTHS $40,470

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

SILVER, ELI A; *MARINE GEOPHYSICAL STUDIES OF BACK-ARC THRUSTING AND OPHIOLITE EMPLACEMENT IN EASTERN INDONESIA (OCE-7808693 A01)*; 18 MONTHS $43,657

SILVER, MARY E; *ECOLOGICAL STUDIES OF MARINE SNOW (OCE-7919244)*; 12 MONTHS $39,456

BRULAND, KENNETH W; *STUDIES ON THE SCAVENGING OF CHEMICAL ELEMENTS AND RADIONUCLIDES IN OCEANIC SURFACE WATERS (OCE-7919928)*; 12 MONTHS $102,382

UNIVERSITY OF SOUTHERN CALIFORNIA

GORSLINE, DONN S. AND DOUGLAS, ROBERT G; *LATE PLEISTOCENE AND HOLOCENE ENVIRONMENTAL HISTORY OF THE CALIFORNIA CONTINENTAL BORDERLAND (OCE-7820453 A01)*; 12 MONTHS $161,012

GORSLINE, DONN S; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: UNIVERSITY OF SOUTHERN CALIFORNIA (OCE-7825878 A01*)*; 12 MONTHS $7,525

HAMMOND, DOUGLAS E; *MIGRATION RATES OF DISSOLVED SPECIES ACROSS THE SEDIMENT-WATER INTERFACE (OCE-7909412 A01)*; 12 MONTHS $44,936

PIEPER, RICHARD E; *STUDIES OF OCEAN VOLUME REVERBERATION AT HIGH ACOUSTIC FREQUENCIES (OCE-7924975)*; 12 MONTHS $149,100

CONNECTICUT

YALE UNIVERSITY

VERONIS, GEORGE; *GENERAL OCEAN CIRCULATION AND GEOPHYSICAL FLUID DYNAMICS (OCE-7719451 A02)*; 12 MONTHS $55,100

RHOADS, DONALD C; *ESTUARINE TURBIDITY: BIOGENIC PROCESSES CONTROLLING CHANGES IN SEAFLOOR ERODIBILITY (OCE-7826211 A01*)*; 12 MONTHS $45,600

BERNER, ROBERT A; *SULFATE REDUCTION IN ANOXIC MARINE SEDIMENTS (OCE-7906919 A01)*; 12 MONTHS $32,990

HALL, ROBERT E; *THEORETICAL STUDIES ON QUASIGEOSTROPHIC FLOW (OCE-7909219 A01)*; 12 MONTHS $29,225

TUREKIAN, KARL K; *THE MEASUREMENT OF 10BE IN MARINE MATERIALS USING A TANDEM VAN DE GRAFF ACCELERATOR (OCE-7911879 A01)*; 12 MONTHS $44,037

TUREKIAN, KARL K; *THE DETERMINATION OF GROWTH RATES OF DEEP-SEA CALCAREOUS ORGANISMS USING NATURAL RADIONUCLIDES (OCE-7919254)*; 24 MONTHS $51,163

PROVASOLI, LUIGI; *COLLABORATIVE RESEARCH: ISOLATION, CULTURE AND CHARACTERIZATION OF OCEANIC ULTRAPLANKTON ALGAE (OCE-8007840)*; 12 MONTHS $69,547

DELAWARE

UNIVERSITY OF DELAWARE-COLLEGE OF MARINE STUDIES

WU, JIN; *SMALL - SCALE STRUCTURE OF THE SEA SURFACE (OCE-7919180)*; 12 MONTHS $37,956

CHURCH, THOMAS M; *TRACE METAL CYCLING IN SALT WATER MARSHES (OCE-7920893)*; 12 MONTHS $70,976

CHURCH, THOMAS M; *TRACE METAL CYCLING IN SALT WATER MARSHES (OCE-7920893 A01*)*; 9 MONTHS $3,765

GORDON, JULIUS; *CALCIUM BINDING IN MOLLUSCAN SHELL MATRIX (OCE-8009232)*; 12 MONTHS $17,409

UNIVERSITY OF DELAWARE

SHERIDAN, ROBERT E; *COLLABORATIVE RESEARCH ON BAHAMA CARBONATE BANKS: STRUCTURE AND TECTONICS (OCE-7925946)*; 12 MONTHS $22,130

SHARP, JONATHAN H; *ORGANIC CHEMISTRY OF THE ESTUARINE MIXING PRODUCT (OCE-8009835)*; 12 MONTHS $25,176

DISTRICT OF COLUMBIA

CATHOLIC UNIVERSITY OF AMERICA

KAO, TIMOTHY W. AND PAO, H.-P. G; *THE DYNAMICS OF SOME CLASSES OF OCEANIC FRONTS (OCE-7925061)*; 12 MONTHS $40,800

FLORIDA

FLORIDA ATLANTIC UNIVERSITY

BAKER, EARL W; *DIAGENESIS OF CHLOROPHYLL AND APPLICATIONS IN MARINE GEOLOGY (OCE-7913258)*; 24 MONTHS $106,300

FLORIDA STATE UNIVERSITY

WHITE, DAVID C; *INSTRUMENTATION FOR NON-SELECTIVE ASSAY OF DETRITAL AND SEDIMENTARY MICROFLORAL BIOMASS AND POPULATION STRUCTURE (OCE-7910013)*; 12 MONTHS $25,000

ANDREAE, MEINRAT O; *THE BIOGEOCHEMISTRY OF TIN IN THE MARINE ENVIRONMENT (OCE-7920183)*; 12 MONTHS $38,821

O'BRIEN, JAMES J; *THE EFFECT OF COASTAL UPWELLING EVENTS ON FJORD CIRCULATION (OCE-7925351)*; 24 MONTHS $72,187

BURNETT, WILLIAM C; *URANIUM-SERIES STUDIES OF OCEAN-FLOOR PHOSPHORITES (OCE-8007047)*; 12 MONTHS $31,233

MARMORINO, GEORGE; *DYNAMICS OF THE WEST FLORIDA SHELF CURRENTS (OCE-8015656)*; 12 MONTHS $46,740

NOVA UNIVERSITY-OCEAN SCIENCE CENTER

BLACKWELDER, PATRICIA L; *COCCOLITHOPHORE CULTURE AND FIELD EXPERIMENTS (OCE-7809643 A01)*; 18 MONTHS $57,872

KUNDU, PIJUSH; *DYNAMICS OF THE UPPER TURBULENT BOUNDARY LAYER OF THE OCEAN (OCE-7819703 A01)*; 12 MONTHS $42,245

UNIVERSITY OF FLORIDA

BATES, ROGER G; *SOLUTION CHEMISTRY OF SEAWATER (OCE-7922029*)*; 12 MONTHS $18,000

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

REEVE, MICHAEL R; *EXPERIMENTAL AND ECOLOGICAL STUDIES ON MARINE PLANKTONIC CARNIVORES (OCE-7708208 A03)*; 7 MONTHS $40,554

TAYLOR, BARRIE F; *NITROGEN-FIXATION IN SUBTROPICAL SEAGRASS COMMUNITIES (OCE-7808618 A03)*; 12 MONTHS $49,255

ZIKA, RODNEY G; *THE CHEMISTRY OF PHOSPHATE IN CONTINENTAL SLOPE AND DEEP SEA SEDIMENTS (OCE-7819437 A03)*; 12 MONTHS $46,992

HAY, WILLIAM W; *THE RELATIONSHIP OF CLIMATE, SEDIMENTATION AND THE GEOCHEMISTRY OF SEDIMENTS TO GLOBAL TECTONICS (OCE-7826679 A01)*; 12 MONTHS $93,650

GRUBER, SAMUEL H. AND LUTZ, PETER L; *THE ROLE OF THE LEMON SHARK, NEGAPRION BREVIROSTRIS (POEY), AS A PREDATOR IN THE TROPICAL MARINE ECOSYSTEM (OCE-7826819 A01)*; 20 MONTHS $98,643

MORSE, JOHN W; *DETERMINATION OF THE SOLUBILITY OF CALCITE AND ARAGONITE IN SEAWATER (OCE-7919242)*; 12 MONTHS $71,165

MILLERO, FRANK J; *THE EFFECT OF PRESSURE ON THE SOLUBILITY OF CALCITE AND ARAGONITE IN SEAWATER (OCE-7919245*)*; 12 MONTHS $33,455

MILLERO, FRANK J; *STUDY OF IONIC INTERACTIONS IN SEAWATER (OCE-7924543)*; 12 MONTHS $89,637

SCHLAGER, WOLFGANG; *COLLABORATIVE RESEARCH ON BAHAMA CARBONATE BANKS: STRUCTURE AND TECTONICS (OCE-7925573)*; 18 MONTHS $45,430

GINSBURG, ROBERT N; *REGIONAL SYNTHESIS OF PLIO-PLEISTOCENE CARBONATES, BAHAMAS ARCHIPELAGO (EAR-7927212*)*; 12 MONTHS $60,000

HOUDE, EDWARD D; *ECOLOGY OF SUBTROPICAL MARINE FISH LARVAE: INTERACTION AMONG LARVAE, THEIR PREDATORS AND THEIR PREY (OCE-8007807)*; 12 MONTHS $73,159

REEVE, MICHAEL R; *NUTRITIONAL ECOLOGY OF MARINE PLANKTONIC CARNIVORES (OCE-8008355)*; 12 MONTHS $72,396

UNIVERSITY OF MIAMI

ZIKA, RODNEY G; *THE PHOTOCHEMICAL GENERATION OF HYDROGEN PEROXIDE AND ORGANIC PEROXIDES IN SEAWATER (OCE-7825628 A01)*; 12 MONTHS $35,182

BOUDRA, DOUGLAS B. AND BLECK, RAINER; *INVESTIGATION OF OCEAN HEAT TRANSPORT USING A DENSITY COORDINATE CIRCULATION MODEL (OCE-7919272)*; 12 MONTHS $53,523

UNIVERSITY OF SOUTH FLORIDA-MARINE SCIENCE INSTITUTE

SACKETT, WILLIAM M; *THE MARINE ORGANIC GEOCHEMISTRY OF STABLE HYDROGEN ISOTOPES (OCE-8002455)*; 12 MONTHS $41,199

UNIVERSITY OF SOUTH FLORIDA

STEINMETZ, JOHN C. AND BETZER, PETER R; *EQUIPMENT GRANT: SCANNING ELECTRON MICROSCOPE (OCE-7913233)*; 12 MONTHS $62,500

BYRNE, ROBERT H; *STUDY OF CHEMICAL COMPLEXATION MODELS: TRACE METALS IN MULTICOMPONENT SOLUTIONS (OCE-7919397)*; 18 MONTHS $48,468

STEINMETZ, JOHN C; *INVESTIGATION OF PALEONTOLOGY OF THE OLIGOCENE BRAARUDOSPHAERA CHALKS OF THE SOUTH ATLANTIC AND OF THEIR ORIGIN (OCE-7919403)*; 12 MONTHS $19,879

BELL, SUSAN S; *MEIOFAUNAL AND MACROFAUNAL FUNCTIONAL GROUPS AND THEIR RESPONSE TO BIOGENIC STRUCTURE (OCE-8001726)*; 18 MONTHS $58,940

HINE, ALBERT C; *PALEO-ENVIRONMENTAL RAMIFICATIONS OF BURIED CHANNELS WITHIN THE INNER CONTINENTAL SHELF (OCE-8008326)*; 24 MONTHS $51,869

GEORGIA

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

TENORE, KENNETH R; *FOOD CHAIN DYNAMICS OF DETRITAL FEEDING BENTHOS (OCE-7825862 A02)*; 12 MONTHS $56,600

PAFFENHOFER, GUSTAV A; *THE RELATION OF PLANKTONIC COPEPODS TO FOOD RESOURCES ON THE SOUTHEASTERN CONTINENTAL SHELF (OCE-7925055)*; 24 MONTHS $120,057

UNIVERSITY OF GEORGIA

PORTER, JAMES W; *QUANTIFICATION OF RESIDENT REEF PLANKTON AND THEIR ROLE IN CORAL REEF FOOD CHAINS (OCE-7726781 A01)*; 2 MONTHS $?4,039

PATTON, JOHN S; *THE LIPID BIOCHEMISTRY OF COELENTERATE SYMBIOSIS (PCM-7909432*)*; 24 MONTHS $17,650

MEYER, JUDY L; *THE CONTRIBUTION OF POMADASYID FISHES TO NUTRIENT FLUX ON CARIBBEAN PATCH REEFS (OCE-7919406)*; 24 MONTHS $55,889

PAYNE, WILLIAM J; *DENITRIFICATION IN SALT MARSH AND IN BACTERIAL CELLS AND EXTRACTS (OCE-7919550*)*; 12 MONTHS $68,820

LEDBETTER, MICHAEL T; *CALIBRATION OF HYDROGRAPHY AND SEDIMENT PARAMETERS IN THE VEMA CHANNEL (OCE-7925364)*; 12 MONTHS $9,000

HAWAII

UNIVERSITY OF HAWAII-MANOA

HEY, RICHARD N, SINTON, JOHN M, PHILPOTTS, JOHN A, AND DUENNEBIER, FREDERICK K; *GALAPAGOS RIFT SYSTEM: TEST OF PROPAGATING RIFT MODEL (OCE-7819816 A01)*; 12 MONTHS $139,010

MARGOLIS, STANLEY V; *OXYGEN AND CARBON ISOTOPES OF MARINE PHYTOPLANKTON AS PALEOCEANOGRAPHIC INDICATORS (OCE-7825283 A01)*; 12 MONTHS $67,756

RESIG, JOHANNA M; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: UNIVERSITY OF HAWAII (OCE-7825453 A02*)*; 12 MONTHS $8,705

SMITH, STEPHEN V, AND CHAVE, KEITH E; *RETRIEVING ANNUAL CYCLES OF WATER TEMPERATURE BY CORAL THERMOMETRY (OCE-7903945)*; 12 MONTHS $59,719

SMITH, STEPHEN V; *RETRIEVING ANNUAL CYCLES OF WATER TEMPERATURE BY CORAL THERMOMETRY (OCE-7903945 A01*)*; $9,943

HUSSONG, DONALD M; *SEISMIC STUDY OF THE CRUSTAL STRUCTURE OF THE SOUTHERN MARGIN OF THE CARIBBEAN SEA (OCE-7919554)*; 24 MONTHS $29,527

HUSSONG, DONALD M; *OCEANOGRAPHER FRACTURE ZONE: STRUCTURE AND DYNAMICS OF A TRANSFORM FAULT AND SPREADING CENTER, PART 2 (OCE-7919906)*; 12 MONTHS $149,357

HELSLEY, CHARLES E, AND GETTRUST, JOSEPH F; *ROSE DATA ARCHIVE (EAR-8002124*)*; 12 MONTHS $40,000

ILLINOIS

UNIVERSITY OF CHICAGO

PLATZMAN, GEORGE W; *NORMAL MODE ANALYSIS OF THE GLOBAL OCEAN TIDE (OCE-7727710 A02)*; 4 MONTHS $12,628

ALLER, ROBERT C; *THE EFFECTS OF ANIMAL-SEDIMENT INTERACTIONS ON GEOCHEMICAL PROCESSES NEAR THE SEDIMENT-WATER INTERFACE (OCE-7900971 A01)*; 12 MONTHS $51,800

INDIANA

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

HITES, RONALD A; *POLYCYCLIC AROMATIC HYDROCARBONS IN SEDIMENTS (OCE-8005997)*; 12 MONTHS $92,800

MAINE

NORTHEASTERN RESEARCH FOUNDATION INC-BIGELOW LABORATORY FOR OCEAN SCIENCES

MORRIS, IAN; *PHOTOSYNTHETIC CARBOXYLATING ENZYMES IN MARINE PHYTOPLANKTON (OCE-7718722 A02)*; 20 MONTHS $112,871

MAGUE, TIMOTHY H; *PRODUCTION OF ORGANIC MATTER BY MARINE PHYTOPLANKTON: THE IDENTIFICATION AND MICROBIAL UTILIZATION OF EXTRACELLULAR COMPOUNDS (OCE-7919224)*; 13 MONTHS $66,292

PACKARD, THEODORE T; *METABOLIC PROCESSES IN THE PERU CURRENT OXYGEN MINIMUM ZONE (OCE-7919905)*; 12 MONTHS $71,472

MAGUE, TIMOTHY H; *COLLABORATIVE RESEARCH IN INTERACTIVE CHEMISTRY OF MARINE DISSOLVED ORGANIC MATTER (OCE-7920245)*; 12 MONTHS $45,807

GLOVER, HILARY E; *AN ENZYMATIC APPROACH TO MEASURE CHEMOAUTOTROPHIC CO2 ASSIMILATION IN MARINE BACTERIA (OCE-7925407*)*; 24 MONTHS $49,830

MURPHY, LYNDA S; *COLLABORATIVE RESEARCH ON COMPARATIVE ENVIRONMENTAL PHYSIOLGY OF MARINE PHYTOPLANKTON: THE NERITIC-OCEANIC BOUNDARY (OCE-8008227)*; 12 MONTHS $65,250

UNIVERSITY OF MAINE, ORONO

MCCLEAVE, JAMES D; *MIGRATORY AND LOCOMOTOR MECHANISMS IN AMERICAN AND EUROPEAN EELS (ANGULLA ROSTRATA AND A. ANGULLA) (OCE-7719440 A01)*; 24 MONTHS $75,000

MAYER, LAWRENCE M; *INTERACTIVE CHEMISTRY OF MARINE DISSOLVED ORGANIC MATTER (OCE-7920245)*; 12 MONTHS $14,192

SCHNITKER, DETMAR; *IPA MOBILITY ASSIGNMENT (DETMAR SCHNITKER) (OCE-8023155)*; 12 MONTHS $43,635

MARYLAND

JOHNS HOPKINS UNIVERSITY

JACKSON, JEREMY B, AND WINSTON, JUDITH E; *LIFE HISTORIES AND COMPETITIVE ABILITIES OF CHEILOSTOME ECTOPROCTS: IMPORTANCE TO CRYPTIC COMMUNITY STRUCTURE (OCE-7819674 A01)*; 13 MONTHS $96,182

JACKSON, JEREMY B; *LIFE HISTORIES AND COMPETITIVE ABILITIES OF CHEILOSTOME ECTOPROCTS: IMPORTANCE TO CRYPTIC COMMUNITY STRUCTURE (OCE-7819674 A02)*; $7,009

TYLER, MARY A, AND ANDERSON, DONALD M; *HYDROGRAPHY-MEDIATED ENCYSTMENT AND EXCYSTMENT OF TWO ESTUARINE DINOFLAGELLATES (OCE-8011039)*; 12 MONTHS $79,779

UNIVERSITY OF MARYLAND, COLLEGE PARK

REAKA, MAJORIE L; *BIOTIC FACTORS THAT DETERMINE ADULT-JUVENILE SURVIVAL IN A TROPICAL INFAUNAL COMMUNITY (OCE-7826605 A01)*; 24 MONTHS $67,644

VERMEIJ, GEERAT J; *STUDIES ON THE PREDATION ON RECENT AND FOSSIL MOLLUSCS (OCE-7909079)*; 12 MONTHS $60,654

COLWELL, RITA R; *CHEMICAL AND BIOLOGICAL PROCESSES OF THE DEMERARA ABYSSAL PLAIN (OCE-8009473)*; 6 MONTHS $8,538

MASSACHUSETTS

GORDON COLLEGE

WRIGHT, RICHARD T; *BACTERIAL NUMBERS AND ACTIVITY IN ESTUARINE AND COASTAL ENVIRONMENTS (OCE-7925368)*; 12 MONTHS $50,769

HARVARD UNIVERSITY

MCCARTHY, JAMES J; *PHYTOPLANKTON NUTRIENT UPTAKE AS A FUNCTION OF NUTRIENT DEPRIVATION (OCE-7726401 A01)*; 6 MONTHS $13,622

WALKER, DAVID; *COMPOSITIONAL AND THERMAL CURVATURE OF PHASE EQUILIBRIA OF OCEANIC BASALTS (OCE-7909699)*; 24 MONTHS $70,200

SEBENS, KENNETH P; *THE EFFECT OF PREY RESOURCE AVAILABILITY ON GROWTH AND COMPETITIVE SUCCESS IN A SPACE LIMITED COMMUNITY (OCE-8007923)*; 12 MONTHS $70,674

ROBINSON, ALLAN R, AND LOBEL, PHILLIP S; *EDDY CURRENTS AND THE LIFE CYCLE OF REEF FISHES (OCE-8009554)*; 12 MONTHS $70,015

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

CHISHOLM, SALLIE W; *PATTERNS OF GROWTH AND CELL DIVISION IN MARINE PHYTOPLANKTON: THE POSSIBLE ROLE OF QUANTIZED GENERATION TIMES AND THE PHASING BY LIGHT (OCE-7708999 A01)*; 24 MONTHS $110,134

FREY, FREDERICK; *PETROLOGIC AND GEOCHEMICAL INVESTIGATIONS OF IGNEOUS ROCKS OBTAINED DURING THE ATLANTIC IPOD PHASE OF THE DEEP SEA DRILLING PROJECT - COLLABORATIVE RESEARCH (OCE-7809058 A01)*; 12 MONTHS $43,865

SCLATER, JOHN G; *DETERMINING THE THERMAL STATE OF OLD OCEANIC CRUST AND LITHOSPHERE (OCE-7909448)*; 12 MONTHS $186,690

HART, STANLEY R; *CHEMISTRY OF THE OCEANIC CRUST: DURATION AND FLUXES OF CRUST-SEAWATER INTERACTIONS (OCE-7909457)*; 24 MONTHS $81,807

MOREL, FRANCOIS M; *DEVELOPMENT OF AN ANALYTICAL METHOD FOR MEASURING IRON SPECIES IN SEAWATER (OCE-7919549*)*; 12 MONTHS $33,910

CANE, MARK A; *SEASONAL VARIABILITY OF EQUATORIAL OCEAN CIRCULATIONS (OCE-7922046)*; 12 MONTHS $49,564

WOODS HOLE OCEANOGRAPHIC INSTITUTION

BRYAN, WILFRED B, THOMPSON, GEOFFREY, AND DICK, HENRY J; *PETROGENESIS AND GEOCHEMICAL EVOLUTION OF THE DEEP OCEAN CRUST (OCE-7726842 A02)*; 12 MONTHS $180,032

SANDERS, HOWARD L; *ATLANTIC ZOOGEOGRAPHY AND ECOLOGY OF PROTOBRANCH BIVALVES (OCE-7808959 A01)*; 12 MONTHS $88,183

THOMPSON, GEOFFREY, AND BRYAN, WILFRED B; *PETROLOGICAL AND GEOCHEMICAL INVESTIGATIONS OF IGNEOUS ROCKS OBTAINED DURING THE ATLANTIC IPOD PHASE OF THE DEEP SEA DRILLING PROGRAM: COLLABORATIVE RESEARCH (OCE-7809019 A01)*; 12 MONTHS $87,188

WHITEHEAD, JOHN A; *BUOYANCY-DRIVEN FLOWS (OCE-7809448 A01)*; 12 MONTHS $68,230

WEBB, DOUGLAS C, AND SCHMITZ, WILLIAM J; *ACOUSTICALLY-TRACKED, NEUTRALLY-BUOYANT FLOAT OPERATIONS AND DEVELOPMENT, AND A PROGRAM OF PRELIMINARY EXPLORATION OF HIGHLY DISPERSIVE REGIONS OF THE WESTERN N. ATLANTIC OCEAN (OCE-7818007 A01*)*; 12 MONTHS $123,189

RICHARDSON, PHILIP L; *A STUDY OF THE GULF STREAM USING FREELY DRIFTING BUOYS (OCE-7818017 A01)*; 12 MONTHS $44,576

STOMMEL, HENRY M; *RESEARCH IN OCEAN PHYSICS (OCE-7818460 A01*)*; 12 MONTHS $137,550

SPENCER, DEREK W; *A SEDIMENT TRAP INTERCOMPARISON EXPERIMENT IN THE PANAMA BASIN IN 1979 (OCE-7818950 A01)*; 6 MONTHS $17,012

GOLDMAN, JOEL C; *THE EFFECTS OF TEMPERATURE ON THE ECOLOGY AND PHYSIOLOGY OF MARINE PHYTOPLANKTON (OCE-7819420 A01)*; 12 MONTHS $71,496

MOTTL, MICHAEL J; *GEOCHEMICAL STUDIES OF HYDROTHERMAL ALTERATION IN THE OCEANIC CRUST (OCE-7819455 A01)*; 12 MONTHS $64,565

BEARDSLEY, ROBERT C, HAIDVOGEL, DALE B, AND VERMERSCH, JOHN A; *A NANTUCKET SHOALS FLUX EXPERIMENT (OCE-7819513 A02)*; 12 MONTHS $90,000

WATSON, STANLEY W; *CONCENTRATION, DISTRIBUTION AND ROLE OF BACTERIA IN THE OCEAN (OCE-7819595 A01)*; 12 MONTHS $94,200

LOHMANN, GEORGE P; *A BENTHONIC FORAMINIFERAL STUDY OF LATE PLEISTOCENE DEEPWATER CIRCULATION BETWEEN THE BRAZIL AND ANGOLA BASINS (OCE-7819768 A01)*; 12 MONTHS $120,068

BERGGREN, WILLIAM A, AND HAQ, BILAL U; *CENOZOIC BIOSTRATIGRAPHY AND BIOGEOGRAPHY OF THE ATLANTIC OCEAN: CALCAREOUS PLANKTON (OCE-7819769 A01)*; 12 MONTHS $122,792

DEUSER, WERNER G; *SEASONAL EFFECTS ON THE OXYGEN AND CARBON ISOTOPE RATIOS OF PLANKTONIC FORAMINIFERA AND APPLICATIONS TO PALEOCLIMATOLOGY (OCE-7819813 A01)*; 12 MONTHS $84,702

GRASSLE, J F; *ECOLOGY OF DEEP-SEA BENTHOS: COMMUNITY STRUCTURE, SPATIAL PATTERN AND THE ROLE OF DISTURBANCE (OCE-7819820 A01)*; 12 MONTHS $89,446

MCCARTNEY, MICHAEL S, AND GEORGI, DANIEL T; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): ANTARCTIC INTERMEDIATE*

WATER RENEWAL AND CIRCULATION (OCE-7922223 A01);* 12 MONTHS $25,023

SAYLES, FREDERICK L; *SEAWATER-SEDIMENT INTERACTION: THE DIFFUSIVE FLUXES OF IONS BETWEEN THE OCEANS AND THE UNDERLYING SEDIMENTS (OCE-7924685 A02*);* 12 MONTHS $52,000

JOHNSON, DAVID A; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: WOODS HOLE OCEANOGRAPHIC INSTITUTION (OCE-7925231 A01*);* 12 MONTHS $16,183

HOGG, NELSON C; *A STUDY OF BOTTOM WATER FLOW THROUGH VEMA CHANNEL (OCE-7925405 A02);* 12 MONTHS $175,200

JOHNSON, DAVID A; *SEDIMENTATION PROCESSES IN THE SOUTHWEST ATLANTIC: RECENT TO LATE CENOZOIC GEOLOGIC TIME (OCE-7925673 A01);* 12 MONTHS $116,200

BREWER, PETER G, AND BACON, MICHAEL P; *STUDIES ON THE SCAVENGING OF CHEMICAL ELEMENTS AND RADIONUCLIDES IN THE DEEP SEA (OCE-7925724 A01);* 12 MONTHS $62,498

BACON, MICHAEL P; *MARINE GEOCHEMISTRY OF THE RADIOACTIVE ELEMENTS (OCE-7926318 A01);* 12 MONTHS $42,809

FARRINGTON, JOHN W; *BIOGEOCHEMISTRY OF AMINO ACIDS IN INTERSTITIAL WATERS OF MARINE SEDIMENTS (OCE-7908665 A01);* 12 MONTHS $45,321

SAYLES, FREDERICK L; *THE MOBILIZATION AND SOLUBILITY OF TRACE METALS DURING SEDIMENT DIAGENESIS (OCE-7908895 A01);* 18 MONTHS $79,335

STEPHEN, R A; *DOWNHOLE OBLIQUE SEISMIC EXPERIMENTS: GALAPAGOS, GULF OF CALIFORNIA, AND NORTH ATLANTIC (OCE-7909351 A01);* $23,568

ZAFIRIOU, OLIVER C; *CHEMICAL EFFECTS OF LIGHT IN THE SEA (OCE-7909381 A01);* 12 MONTHS $86,002

KEIR, ROBIN S, AND HONJO, SUSUMU; *THE REACTIVITY OF DEEP-SEA SEDIMENT WITH RESPECT TO CALCIUM CARBONATE DISSOLUTION: LABORATORY DETERMINATION OF ITS VARIATION (OCE-7909456 A01);* 12 MONTHS $29,568

PURDY, G M, AND STEPHEN, R A; *SEISMIC STRUCTURE OF 'NORMAL' OCEANIC CRUST: SCALE AND NATURE OF LATERAL VARIATIONS (OCE-7909464);* 12 MONTHS $180,319

JANNASCH, HOLGER W; *MICROBIAL TRANSFORMATIONS IN SEAWATER (OCE-7919178);* 13 MONTHS $173,157

VON HERZEN, RICHARD P; *HEAT FLOW INVESTIGATION OF THE HAWAIIAN SWELL (OCE-7919226);* 24 MONTHS $155,380

SCHMITT, RAYMOND W, AND JOYCE, TERRENCE M; *A TEST FOR DOUBLE-DIFFUSIVE SIGNATURES IN TEMPERATURE AND SALINITY FINESTRUCTURE (OCE-7919251);* 12 MONTHS $22,710

DENHAM, CHARLES R; *MARINE SEDIMENTARY PALEOMAGNETISM (OCE-7919258);* 12 MONTHS $23,569

TAYLOR, CRAIG D, AND GAGOSIAN, ROBERT B; *MICROBIAL TRANSFORMATIONS OF ORGANIC COMPOUNDS IN THE ANOXIC MARINE ENVIRONMENT (OCE-7919264*);* 12 MONTHS $65,745

VON HERZEN, RICHARD P; *COOPERATIVE STUDY OF GEOTHERMAL MEASUREMENTS FROM PACIFIC OCEAN SITES OF THE DEEP SEA DRILLING PROJECT (OCE-7919324);* 12 MONTHS $18,411

JENKINS, WILLIAM J; *A STUDY OF TRANSPORT PROCESSES IN THE NORTH ATLANTIC OCEAN USING TRITIUM AND HELIUM (OCE-7919815*);* 12 MONTHS $84,843

HUNT, JOHN M; *GEOCHEMISTRY OF VOLATILE ORGANIC COMPOUNDS IN MARINE SEDIMENTS (OCE-7919861);* 12 MONTHS $75,045

PRADA, KENNETH E; *EQUIPMENT GRANT: UPGRADE OF SEISMIC SIGNAL PROCESSING FACILITY (OCE-7921393);* 12 MONTHS $12,000

LEE, CINDY; *A STUDY OF THE SEDIMENTARY CYCLE OF ORGANIC NITROGEN COMPOUNDS (OCE-7925080);* 12 MONTHS $36,716

RHINES, PETER B, AND BRUCE, J G; *ZONAL VARIABILITY IN THE EQUATORIAL ATLANTIC (OCE-7925350);* 12 MONTHS $63,588

GAGOSIAN, ROBERT B; *THE SITES AND MECHANISMS OF TRANSFORMATION REACTIONS OF BIOGENIC ORGANIC COMPOUNDS IN THE MARINE ENVIRONMENT (OCE-7925352);* 12 MONTHS $111,770

HURD, DAVID C; *THE EFFECTS OF SKELETAL MICROSTRUCTURE ON THE PRESERVATION AND RATE OF RECYCLING OF BIOGENIC SILICA IN THE OCEANS (OCE-7925412);* 12 MONTHS $30,000

MADIN, LAURENCE P, AND HARBISON, G R; *THE BIOLOGY OF GELATINOUS ZOOPLANKTON: PATTERNS OF DISTRIBUTION AND ASSOCIATION (OCE-7925415);* 12 MONTHS $81,928

HONJO, SUSUMU, AND BREWER, PETER G; *A STUDY OF THE OCEANIC LARGE PARTICLE FLUX BY MEANS OF MOORED SEDIMENT TRAPS: LABORATORY ANALYSIS OF SAMPLES OBTAINED FROM TWO PANAMA BASIN EXPERIMENTS (OCE-7925429);* 12 MONTHS $110,003

BRYAN, WILFRED B, AND THOMPSON, GEOFFREY; *KANE FRACTURE ZONE: DEEP CRUSTAL STRATIGRAPHY AND STRUCTURE (OCE-7926302*);* 12 MONTHS $170,290

GUILLARD, ROBERT R; *COLLABORATIVE RESEARCH ON COMPARATIVE ENVIRONMENTAL PHYSIOLOGY OF MARINE PHYTOPLANKTON: THE NERITIC-OCEANIC BOUNDARY (OCE-8008248);* 12 MONTHS $79,750

KANWISHER, JOHN W; *BACK DOWN THE FOOD CHAIN (OCE-8009812);* 12 MONTHS $29,931

FYE, PAUL M; *THIRD INTERNATIONAL CONGRESS ON THE HISTORY OF OCEANOGRAPHY AT WOODS HOLE, MASSACHUSETTS, SEPTEMBER 22-26, 1980 (SES-8011412*);* 12 MONTHS $30,000

GUILLARD, ROBERT R; *COLLABORATIVE RESEARCH: ISOLATION, CULTURE AND CHARACTERIZATION OF OCEANIC ULTRPLANKTON ALGAE (OCE 8040623);* 12 MONTHS $21,535

MICHIGAN

MICHIGAN TECHNOLOGICAL UNIVERSITY

BESKE-DIEHL, SUZANNE, AND DIEHL, JIMMY F; *ALTERATION EFFECTS ON THE REMANENT DIRECTION AND RELATED ROCK MAGNETIC PROPERTIES OF ROCKS FROM OCEANIC LAYER 2 (OCE-7919720);* 24 MONTHS $69,500

UNIVERSITY OF MICHIGAN

KILHAM, PETER, AND KILHAM, SUSAN S; *POPULATION DYNAMICS, ECOLOGICAL PHYSIOLOGY, AND COMPETITION IN FRESHWATER PLANKTONIC DIATOMS: THE EFFECTS OF TEMPERATURE (OCE-7927016 A01);* 21 MONTHS $113,909

MINNESOTA

UNIVERSITY OF MINNESOTA

HUYER, ADRIANA, AND SMITH, ROBERT L; *STUDIES OF THE PHYSICAL OCEANOGRAPHY OVER THE OREGON CONTINENTAL MARGIN (OCE-7925019*);* 12 MONTHS $42,595

MISSOURI

WASHINGTON UNIVERSITY

BATIZA, RODEY; *ORIGIN AND EVOLUTION OF SMALL OCEANIC VOLCANOES NEAR MID-OCEAN RIDGES (OCE-7727001 A01);* $7,100

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

BROWN, WENDELL S; *A STUDY OF PRESSURE GRADIENTS ON THE NORTHEAST CONTINENTAL SHELF (OCE-7826225 A01);* 12 MONTHS $64,389

WEBER, JAMES H; *METAL ION-HUMIC MATTER COMPLEXES IN NATURAL WATERS (OCE-7910571);* 12 MONTHS $45,115

BROWN, WENDELL S; *A DENSITY CHAIN INTERCOMPARISON (OCE-7921833*);* 12 MONTHS $63,902

NEW YORK

CITY COLLEGE

LEE, JOHN J; *RESEARCH ON THE STRUCTURE OF MEIOFAUNAL FOOD WEBS IN SHALLOW MARINE SYSTEMS (OCE-7825798 A01);* 12 MONTHS $61,094

LEE, JOHN J; *PURCHASE OF A LIQUID SCINTILLATION COUNTER (OCE-7910131);* 12 MONTHS $19,200

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

KING, KENNETH J; *FOSSIL PROTEINS: CHEMICAL REACTIONS AND GEOCHRONOLOGIC APPLICATIONS (OCE-7808647 A01*);* 12 MONTHS $67,070

OPDYKE, NEIL D, AND KENT, DENNIS V; *GLOBAL STUDY OF THE BRUNHES/MATUYAMA MAGNETIC POLARITY TRANSITION IN DEEP-SEA SEDIMENTS (OCE-7814765 A01);* 12 MONTHS $80,239

MC INTYRE, ANDREW, RUDDIMAN, WILLIAM F, AND DURAZZI, JOSEPH T; *PHENOMENON OF RAPID GLACIAL GROWTH: DOCUMENTATION, THEORY, TESTING AND SYNTHESIS USING THE OCEANIC RECORD (OCE-7818261 A01*);* 12 MONTHS $63,503

BONATTI, ENRICO, AND HAMLYN, PAUL R; *A PETROLOGICAL STUDY OF OCEANIC ULTRAMAFIC ROCKS (OCE-7819453 A01);* 12 MONTHS $81,287

MALONE, THOMAS C, HOUGHTON, ROBERT W, AND MARRA, JOHN; *FRONTAL ZONE MIXING AND ITS INFLUENCE ON THE DEVELOPMENT AND DISSIPATION OF PHYTOPLANKTON POPULATIONS (OCE-7819799 A02*);* 12 MONTHS $174,375

HAYES, DENNIS E, AND WEISSEL, JEFFREY K; *CONDITIONS GOVERNING THE INITIATION OF SUBDUCTION: THE CAROLINE-PACIFIC PLATE BOUNDARY IN THE EASTERN CAROLINE SEA (OCE-7819830 A01);* 12 MONTHS $57,500

LANGSETH, MARCUS G; *MECHANISMS OF GEOTHERMAL HEAT TRANSFER IN OCEANIC SEDIMENTS (OCE-7820445 A01);* $77,983

BURCKLE, LLOYD H; *TERTIARY DIATOM BIOSTRATIGRAPHY OF THE NORTH PACIFIC AND CIRCUM-PACIFIC (OCE-7820885 A01);* 12 MONTHS $61,989

BURCKLE, LLOYD H; *TERTIARY DIATOM BIOSTRATIGRAPHY OF THE NORTH PACIFIC AND CIRCUM-PACIFIC (OCE-7820885 A02);* $2,942

STOFFA, PAUL L, BUHL, PETER, HOUTZ, ROBERT E, HERRON, THOMAS J, AND LARSON, ROGER L; *RIVERA OCEAN SEISMIC EXPERIMENT (ROSE): MULTICHANNEL SEISMIC REFLECTION AND REFRACTION STUDIES (OCE-7823822 A01);* 12 MONTHS $183,898

OPDYKE, NEIL D, AND MCCOY, FLOYD W; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: LAMONT-DOHERTY GEOLOGICAL OBSERVATORY (OCE-7825448 A01*);* 12 MONTHS $44,050

BE, ALLAN W, AND FAIRBANKS, RICHARD G; *PLANKTONIC FORAMINIFERA: LIFE CYCLES, ENVIRONMENTAL CONSTRAINTS AND SHELL STRUCTURE (OCE-7825450 A02*);* 12 MONTHS $152,278

ANDERSON, ROGER N, AND ZOBACK, MARK D; *IN SITU PERMEABILITY, STRESS, AND FRACTURE PATTERNS: IPOD DOWNHOLE EXPERIMENT, LEG 68 AND 69 (OCE-7827016 A02);* 12 MONTHS $58,182

PITMAN, WALTER C, AND LARSON, ROGER L; *GEOLOGIC AGE MAP OF THE WORLD (OCE-7902981);* 24 MONTHS $45,602

SANCETTA, CONSTANCE A, AND BURCKLE, LLOYD H; *OCEANOGRAPHIC AND ECOLOGIC SIGNIFICANCE OF DIATOM SEDIMENTS IN THE BERING SEA (OCE-7906368 A01);* 12 MONTHS $44,757

BISHOP, JAMES K; *THE CHEMISTRY AND VERTICAL FLUX OF OCEANIC PARTICULATE MATTER (OCE-7909074)*; 12 MONTHS $54,215

BOPP, R F, AND SIMPSON, H J; *THE GEOCHEMISTRY OF CHLORINATED HYDROCARBONS IN NATURAL WATERS (OCE-7909249)*; 12 MONTHS $59,956

RUDDIMAN, WILLIAM F; *MIXING OF DEEP-SEA SEDIMENTS (OCE-7918213)*; 12 MONTHS $63,150

LARSON, ROGER L, AND JARRARD, RICHARD D; *TECTONIC EVOLUTION OF THE SOUTHERN CENTRAL PACIFIC BASIN (OCE-7918783)*; 12 MONTHS $80,500

WATTS, ANTHONY B, AND COCHRAN, JAMES R; *LITHOSPHERIC FLEXURE, ANALYSIS OF GRAVITY ANOMALIES AND THE GEOLOGICAL EVOLUTION OF THE WORLD'S OCEAN BASINS (OCE-7918917)*; 12 MONTHS $68,341

HECKER, BARBARA; *EXPERIMENTS IN DEEP-SEA BENTHIC RECOLONIZATION (OCE-7919099)*; 18 MONTHS $60,728

COCHRAN, JAMES R; *NORTHWEST INDIAN OCEAN STRUCTURE: TRANSITION ZONE BETWEEN SHEBA RIDGE AND THE OWEN BASIN (OCE-7919211)*; 12 MONTHS $110,700

LANGSETH, MARCUS G, AND HORAI, K; *COOPERATIVE STUDY OF GEOTHERMAL MEASUREMENTS FROM PACIFIC OCEAN SITES OF THE DEEP SEA DRILLING PROJECT (OCE-7919387)*; 12 MONTHS $40,897

RABINOWITZ, PHILIP D; *NORTHWEST INDIAN OCEAN STRUCTURE: EVOLUTION OF THE WESTERN SOMALI BASIN AND EAST AFRICA CONTINENTAL MARGIN (OCE-7919389)*; 12 MONTHS $298,200

BOERSMA, ANNE, AND KENT, DENNIS V; *PALEOBIOGEOGRAPHIC AND PALEO-OCEANOGRAPHIC STUDIES OF PACIFIC OLIGOCENE FORAMINIFERA (OCE-7920102)*; 12 MONTHS $47,344

KATZ, ELI J; *ANNUAL CYCLE IN THE WESTERN EQUATORIAL ATLANTIC (OCE-7922532*)*; 24 MONTHS $86,353

MORLEY, JOSEPH J, AND HAYS, J D; *LATE QUATERNARY STRATIGRAPHIC AND PALEOCLIMATIC SIGNFICANCE OF THE RADIOLARIAN CYCLADOPHORA DAVISIANA (OCE-7924563)*; 12 MONTHS $34,860

WEISSEL, JEFFREY K, AND ANDERSON, ROGER N; *INDIAN OCEAN: STUDY OF INTRAPLATE DEFORMATION (OCE-7925070)*; 18 MONTHS $165,600

FAIRBANKS, RICHARD G; *THE STABLE ISOTOPE AND MINOR ELEMENT CHEMISTRY OF MODERN AND HOLOCENE PLANKTONIC FORAMINIFERA; PALEOOCEANOGRAPHIC APPLICATIONS (OCE-7925393)*; 12 MONTHS $51,849

KENT, DENNIS V; *MAGNETOSTRATIGRAPHY OF LEG 68 HYDRAULIC PISTON CORES (OCE-7925402)*; 12 MONTHS $36,781

PITMAN, WALTER C, WATTS, ANTHONY B, AND SCHREIBER, B CHARLOT; *EVOLUTION OF ATLANTIC-TYPE CONTINENTAL MARGINS (OCE-7926308)*; 12 MONTHS $90,297

MALONE, THOMAS C; *REGULATION OF GROWTH AND BIOMASS OF PHYTOPLANKTON SIZE CLASSES IN THE LOWER HUDSON ESTUARY (OCE-8000677)*; 12 MONTHS $15,838

ANDERSON, O R; *BIOLOGY OF RADIOLARIA: ECOLOGY, PHYSIOLOGY, AND LIFE HISTORY (OCE-8005131)*; 12 MONTHS $66,515

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

MCFARLAND, WILLIAM N; *LIFE HISTORY STAGES IN REEF FISHES OF THE FAMILY HAEMULIDAE--ECOLOGICAL ASPECTS OF THEIR BEHAVIOR (OCE-7918569)*; 24 MONTHS $65,944

QUEENS COLLEGE

HABIB, DANIEL; *SEDIMENTARY PALYNOLOGY OF THE NORTH ATLANTIC CRETACEOUS (OCE-7913191)*; 24 MONTHS $71,162

STATE UNIVERSITY AT STONY BROOK

BOWMAN, MALCOLM J; *TIDAL STIRRING AND THE DISTRIBUTION OF PHYTOPLANKTON IN SHALLOW SEAS (OCE-7726970 A03*)*; 12 MONTHS $78,960

BENCE, ALFRED E, AND HANSON, GILBERT N; *PETROLOGY AND GEOCHEMISTRY OF OCEANIC BASALTS (OCE-7820058 A01)*; 12 MONTHS $92,074

SCRANTON, MARY I; *THE HYDROGEN CYCLE IN AN ANOXIC MARINE ENVIRONMENT (OCE-8007949)*; 12 MONTHS $32,309

UNION COLLEGE

ZIMMERMAN, HERMAN B; *DISTRIBUTION OF CLAY MINERALS AND EVOLUTION OF THE ATLANTIC OCEAN (OCE-8008236)*; 18 MONTHS $31,932

NORTH CAROLINA

DUKE UNIVERSITY

PILKEY, ORRIN H; *SAND LAYER GEOMETRY ON FLAT OCEAN BASIN FLOORS (OCE-7918907)*; 24 MONTHS $68,851

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

WEISBERG, ROBERT H; *TIME DEPENDENT MOTIONS IN THE EQUATORIAL ATLANTIC (OCE-7820396 A01)*; 12 MONTHS $65,139

NITTROUER, CHARLES A, AND DEMASTER, DAVID J; *THE ACCUMULATION OF FINE-GRAINED SEDIMENT ON THE INNER CONTINENTAL SHELF: AN EXAMINATION OF THE AMAZON SHELF (OCE-7908496 A01)*; $8,438

NITTROUER, CHARLES A, AND DEMASTER, DAVID J; *THE ACCUMULATION OF FINE-GRAINED SEDIMENT ON THE INNER CONTINENTAL SHELF: AN EXAMINATION OF THE AMAZON SHELF (OCE-7908496 A02)*; 18 MONTHS $70,622

KAMYKOWSKI, DANIEL; *THE DIURNAL VERTICAL MIGRATION OF DINOFLAGELLATES THROUGH TEMPERATURE GRADIENTS AS IT CONTRIBUTES TO THEIR FIELD PATCH STRUCTURE (OCE-7920895)*; 12 MONTHS $11,655

WEISBERG, ROBERT H, AND HORIGAN, ALLEN M; *SEASONAL VARIABILITY IN THE EQUATORIAL ATLANTIC (OCE-7923335*)*; 18 MONTHS $122,596

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL-INSTITUTE OF MARINE SCIENCES

PETERSON, CHARLES H; *AN EXPERIMENTAL APPROACH TO QUANTIFY THE IMPORTANCE OF PREDATION AND COMPETITION IN SOME BENTHIC SOFT-SEDIMENT SYSTEMS (OCE-7909323 A01)*; 20 MONTHS $47,588

PETERSON, CHARLES H; *DOCTORAL DISSERTATION RESEARCH: DOES SUCCESSION OCCUR IN MARINE SOFT SUBSTRATES (OCE-7925354)*; 24 MONTHS $9,000

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

NEUMANN, A; *TRAILING EDGE CARBONATE MARGINS OF OPEN SEAS AND SEAWAYS: NEAR SURFACE STRATIGRAPHY AND PROCESSES OF DEPOSITION (OCE-7724639 A02)*; 6 MONTHS $18,317

MARTENS, C S; *BIOGEOCHEMICAL CYCLING IN THE ORGANIC-RICH COASTAL ENVIRONMENT (OCE-7809485 A02)*; $9,400

SHUMAN, MARK S; *STUDY OF KINETIC AND EQUILIBRIUM FACTORS BY ANODIC STRIPPING VOLTAMMETRY AND OTHER ELECTROCHEMICAL METHODS (OCE-7914592 A01)*; 12 MONTHS $55,060

PETERSON, CHARLES H; *THE IMPORTANCE OF PREDACEOUS INFAUNAL POLYCHAETES IN ORGANIZING MARINE SOFT-BOTTOM COMMUNITIES (OCE-7919916)*; 24 MONTHS $8,460

BANE JR, JOHN M; *THEORETICAL STUDIES OF LONG WAVE MOTIONS IN A CONTINUOUSLY STRATIFIED BOUNDARY CURRENT (OCE-7923413)*; 18 MONTHS $38,123

MARTENS, C S; *BIOGEOCHEMICAL CYCLING IN THE ORGANIC-RICH COASTAL ENVIRONMENT (OCE-8009245)*; 12 MONTHS $65,343

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON

CLEARY, WILLIAM J; *SAND LAYER GEOMETRY ON FLAT OCEAN BASIN FLOORS (OCE-7921574)*; 24 MONTHS $33,200

OHIO

CASE WESTERN RESERVE UNIVERSITY

MC CALL, PETER L; *EFFECTS OF UNIONID BIVALVES ON THE PHYSICAL AND CHEMICAL PROPERTIES OF LAKE ERIE SEDIMENTS (OCE-8005103)*; 12 MONTHS $54,972

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

ATKINSON, GORDON; *SPECTROPHOTOMETRIC MEASUREMENTS OF ION ASSOCIATION EQUILIBRIA AT HIGH PRESSURE (OCE-7814527 A01)*; 12 MONTHS $53,000

OREGON

OREGON STATE UNIVERSITY

SUESS, ERWIN; *FRACTIONATION OF BIO-CONVEYED ELEMENTS AT THE WATER-SEDIMENT INTERFACE (OCE-7720376 A02)*; $4,681

SMALL, LAWRENCE F, AND DONAGHAY, PERCY L; *ALGAL-GRAZER INTERACTIONS IN THE MARINE ENVIRONMENT (OCE-7808635 A02)*; 12 MONTHS $57,911

LUBCHENCO, JANE, AND MENGE, BRUCE A; *EXPERIMENTAL STUDIES OF COMMUNITY ORGANIZATION IN A TROPICAL ROCKY INTERTIDAL COMMUNITY (OCE-7817899 A01)*; 12 MONTHS $102,111

KULM, LAVERNE D, SCHRADER, HANS J, AND SCHEIDEGGER, KENNETH F; *TEMPORAL AND SPATIAL EVOLUTION OF THE SUBDUCTION COMPLEX AND ACCRETIONARY BASINS OF THE OREGON CONTINENTAL SLOPE (OCE-7819825 A02)*; 6 MONTHS $39,460

CHEN, CHEN-TUNG A; *CALCIUM CARBONATE AND ORGANIC CARBON IN THE OCEANS (OCE-7820449 A01)*; 12 MONTHS $23,676

NIILER, PEARN P; *THEORY OF OCEAN CIRCULATION (OCE-7820766 A01)*; 12 MONTHS $56,899

SCHRADER, HANS J; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: OREGON STATE UNIVERSITY (OCE-7825443 A01*)*; 12 MONTHS $9,346

CORLISS, JOHN B; *HYDROTHERMAL VENT WATERS AND DEPOSITS-GALAPAGOS RIFT (OCE-7826368 A01*)*; 12 MONTHS $74,076

ALLEN, JOHN S; *STUDIES OF EASTERN BOUNDARY CURRENTS (OCE-7826820 A01)*; 12 MONTHS $60,200

MILLER, CHARLES B; *PRODUCTION CONTROL MECHANISMS OF THE SUBARCTIC PACIFIC PELAGIC ECOSYSTEM (OCE-7918687*)*; 12 MONTHS $23,191

CALDWELL, DOUGLAS R; *CONVECTION IN SEAWATER (OCE-7918904)*; 12 MONTHS $97,793

LEVI, SHAUL; *MAGNETIC PROPERTIES OF VOLCANIC ROCKS FROM THE GALAPAGOS SPREADING CENTER (OCE-7919230)*; 24 MONTHS $58,362

KULM, LAVERNE D, AND KOMAR, PAUL D; *SEDIMENTATION PROCESSES IN DEEP SEA TRENCHES: CHILE TRENCH (OCE-7919361)*; 12 MONTHS $138,242

SCHEIDEGGER, KENNETH F; *DEEP-SEA ASH LAYER RECORD OF CONDITIONS INFLUENCING EXPLOSIVE VOLCANIC ACTIVITY (OCE-7919364)*; 24 MONTHS $58,850

SCHRADER, HANS J; *LAMINATED SEDIMENTS OF THE CENTRAL GULF OF CALIFORNIA: A STUDY OF CLIMATIC AND SEDIMENTOLOGIC INFORMATION PRESERVED OVER THE LAST 150,000 YEARS (ATM-7919458*)*; 12 MONTHS $15,000

KULM, LAVERNE D; *EQUIPMENT GRANT: ACOUSTICAL NAVIGATION SYSTEM FOR GEOLOGICAL AND GEOPHYSICAL STUDIES (OCE-7919464)*; 12 MONTHS $79,913

BIBEE, L DALE; *GORDA RIDGE TECTONICS: SEISMICITY AND HYDROTHERMAL ACTIVITY (OCE-7919481)*; 12 MONTHS $67,922

DESZOEKE, ROLAND A, AND RICHMAN, JAMES G; *INVESTIGATION OF THE ROLE OF MIXING AND THE SURFACE MIXED LAYER IN THE DYNAMICS OF COASTAL UPWELLING (OCE-7925596)*; 12 MONTHS $44,509

SCHEIDEGGER, KENNETH F; *OCEANIC BASALTS FROM THE CHILE TRENCH: PETROGENESIS AND SECONDARY ALTERATION (OCE-7926018)*; 12 MONTHS $79,457

LEVI, SHAUL; *GEOMAGNETIC FLUCTUATIONS RECORDED IN RAPIDLY DEPOSITED MARINE SEDIMENTS FROM THE GULF OF CALIFORNIA: PALEOMAGNETISM OF DSDP SITES 480 AND 479 (OCE-7926440)*; 12 MONTHS $29,894

BAROSS, JOHN A, AND GORDON, LOUIS I; *DISSOLVED GASES IN MARINE WATERS: CHEMICAL AND MICROBIOLOGICAL PARAMETERS EFFECTING FORMATION, UTILIZATION AND NATURAL FLUXES (OCE-7927283*)*; 12 MONTHS $39,381

CORLISS, JOHN B; *GORDA RIDGE SPREADING CENTER: HYDROTHERMAL ACTIVITY (OCE-8009683)*; 12 MONTHS $29,969

PENNSYLVANIA

LEHIGH UNIVERSITY

CARSON, BOBB; *MODERN SEDIMENT TRANSPORT AND ACCUMULATION IN QUINAULT CANYON: A STUDY OF THE DYNAMICS AND EFFECTS OF TERRIGENOUS SEDIMENT DISPERSAL (OCE-8009227)*; 12 MONTHS $127,550

PENNSYLVANIA STATE UNIVERSITY

LASAGA, ANTONIO C; *EXPERIMENTAL STUDY OF MULTICOMPONENT AND ION PAIR DIFFUSION AND APPLICATIONS TO MARINE TRANSPORT PHENOMENA (OCE-7919830)*; 12 MONTHS $33,696

RHODE ISLAND

BROWN UNIVERSITY

FORSYTH, DONALD W, AND ROWLETT, HUGH E; *OCEANOGRAPHER FRACTURE ZONE: STRUCTURE AND DYNAMICS OF A TRANSFORM FAULT AND SPREADING CENTER, PART I (OCE-7919411)*; 12 MONTHS $40,286

MATTHEWS, R K; *ISOTOPIC PALEO-OCEANOGRAPHY: NEOGENE AND PALEOGENE APPLICATIONS (OCE-7925422)*; 12 MONTHS $40,615

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER; *INTERNATIONAL TRAVEL FUNDS FOR FOREIGN SCIENTISTS TO ATTEND THE WINTER 1980 GORDON RESEARCH CONFERENCE ON CHEMICAL OCEANOGRAPHY (OCE-7909345*)*; 12 MONTHS $8,165

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

GARBER, JONATHAN H; *AN ANALYSIS OF NITROGEN TRANSFORMATION IN A SUBTIDAL COASTAL MARINE BOTTOM COMMUNITY USING 15N TRACER STUDIES AND NATURAL ISOTOPE ABUNDANCES (OCE-7820280 A01*)*; 12 MONTHS $66,327

SCHILLING, JEAN-GUY; *MID-OCEAN RIDGE SYSTEMS: GEOCHEMICAL AND ISOTOPIC VARIATIONS (OCE-7824690 A01)*; $35,444

SILVA, ARMAND J, AND DRISCOLL, ALAN H; *MARINE SEDIMENTS: ENGINEERING DESIGN FOR A LONG CORING CAPABILITY (OCE-7824975 A01*)*; 12 MONTHS $50,000

MOORE, THEODORE C, PISIAS, NICKLAS, LEINEN, MARGARET, AND REA, DAVID K; *CENOZOIC SEDIMENTS OF THE NORTH PACIFIC: PALEOCEANOGRAPHIC MODELS (OCE-7825341 A01)*; 12 MONTHS $61,392

SIEBURTH, JOHN M; *OPEN OCEAN PICOPLANKTON AND NANOPLANKTON: ECOLOGY AND TROPHODYNAMICS (OCE-7826388 A01)*; 12 MONTHS $127,000

SIGURDSSON, HARALDUR; *PETROGRAPHIC PROVINCES OF THE MID-ATLANTIC RIDGE (OCE-7913805)*; 12 MONTHS $39,900

DURBIN, EDWARD G, AND DURBIN, ANN G; *A COMPARISON OF THE BIOENERGETICS OF FEEDING IN TWO PLANKTON FEEDING FISHES: THE MENHADEN BREVOORTIA TYRANNUS AND THE HERRING CLUPEA HARENGUS (OCE-7919551)*; 12 MONTHS $104,117

WATTS, D R; *THE DYNAMICS OF GULF STREAM MEANDERS (OCE-7921029 A01)*; $34,930

BENDER, MICHAEL L; *PORE WATER CHEMISTRY OF MOUNDS ABYSSAL HYDROTHERMAL FIELD SEDIMENTS (OCE-7921137*)*; 12 MONTHS $66,503

ROSSBY, H, AND KNAUSS, JOHN A; *A ONE-YEAR STUDY OF THE VELOCITY STRUCTURE OF THE GULF STREAM INCLUDING MASS AND HEAT TRANSPORTS EAST OF CAPE HATTERAS (OCE-7916187)*; 15 MONTHS $47,255

SWIFT, ELIJAH; *A WORKSHOP BY MARINE PHYTOPLANKTON RESEARCH WORKERS TO ESTABLISH MARINE PHYTOPLANKTON COLLECTIONS (OCE-8000003)*; 12 MONTHS $7,216

ROSSBY, H; *THE DEEP DRIFTER-A SIMPLE TOOL TO DETERMINE AVERAGE OCEAN CURRENTS (OCE-8010839*)*; 24 MONTHS $29,896

UNIVERSITY OF RHODE ISLAND

KESTER, DANA R; *PHYSICAL CHEMISTRY OF COPPER IN SEAWATER (OCE-7826172 A01)*; 12 MONTHS $67,193

DRISCOLL, ALAN H; *GEOLOGICAL SAMPLES LABORATORY. CURATORIAL SUPPORT (OCE-7910443*)*; 16 MONTHS $17,562

SILVA, ARMAND J; *THE EFFECT OF DEEP SEA SEDIMENT PHYSICAL PROPERTIES ON OCEANIC HEAT FLOW (OCE-7919426)*; 18 MONTHS $62,878

WATTS, D R; *THE DYNAMICS OF GULF STREAM MEANDERS (OCE-7921029)*; 12 MONTHS $135,413

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

COULL, BRUCE C; *THE ECOLOGY OF MEIOFAUNAL POPULATIONS IN A SOUTH CAROLINA ESTUARY (OCE-7909450 A01)*; 12 MONTHS $50,053

FELLER, ROBERT J; *INCORPORATION OF MEIOFAUNA IN MARINE BENTHIC FOOD WEBS QUANTIFIED USING SEROLOGICAL METHODS (OCE-7919479)*; 24 MONTHS $75,404

THUNELL, ROBERT C; *FORAMINIFERAL BIOGEOGRAPHY OF LATE NEOGENE ANOXIC ENVIRONMENTS IN THE EASTERN MEDITERRANEAN (OCE-7923736)*; 24 MONTHS $56,785

WILLIAMS, DOUGLAS F; *STABLE ISOTOPE STUDIES OF LIVING AND RECENT FORAMINIFERA AND PTEROPODA: PALEOECOLOGIC IMPLICATIONS (OCE-8008239)*; 24 MONTHS $79,687

TEXAS

TEXAS A & M UNIVERSITY

PRESLEY, BOBBY J; *THE GEOCHEMISTRY OF SELECTED MAJOR AND MINOR ELEMENTS IN CONTINENTAL SHELF AND SLOPE ENVIRONMENTS (OCE-7820351 A01)*; 12 MONTHS $40,600

SCHINK, DAVID R, AND GUINASSO, NORMAN L; *EFFECTS OF VERTICAL MIXING IN SEDIMENTS ON THE CHEMICAL INTERACTIONS BETWEEN DEEP SEA SEDIMENTS AND SEA WATER (OCE-7821170 A01)*; 12 MONTHS $100,928

BROOKS, DAVID A; *OBSERVATIONS OF TOPOGRAPHIC ROSSBY WAVES AND GULF STREAM MEANDERS ALONG THE CONTINENTAL SLOPE (OCE-7906710 A01)*; 12 MONTHS $55,675

BROOKS, DAVID A; *CURRENT AND HYDROGRAPHIC OBSERVATIONS IN THE WESTERN GULF OF MEXICO (OCE-7924606)*; 24 MONTHS $86,722

WORMUTH, JOHN; *DOCTORAL DISSERTATION RESEARCH: THE TIME COURSE OF ADAPTATION OF EGG PRODUCTION TO FOOD LEVEL IN OCEANIC MARINE PLANKTONIC COPEPODS (OCE-8007356)*; 12 MONTHS $5,110

UNIV OF TEXAS AT AUSTIN-MARINE SCIENCE INSTITUTE AT GALVESTON

BUFFLER, RICHARD T; *GEOLOGIC HISTORY OF THE DEEP GULF OF MEXICO BASIN (OCE-8008865)*; 12 MONTHS $68,319

UNIV OF TEXAS AT DALLAS

MITTERER, RICHARD M, AND KRIAUSAKUL, NIVAT; *BIOGEOCHEMISTRY OF CALCIUM CARBONATE SEDIMENTS (OCE-7925389)*; 12 MONTHS $52,319

VIRGINIA

COLLEGE OF WILLIAM AND MARY-VIRGINIA INSTITUTE OF MARINE SCIENCE

MUSICK, JOHN A; *A COMPARATIVE STUDY OF THE STRUCTURE AND FUNCTION OF DEMERSAL DEEP-SEA FISH ASSEMBLAGES IN TROPICAL AND TEMPERATE ECOSYSTEMS (OCE-7920567)*; 24 MONTHS $82,359

OLD DOMINION UNIVERSITY

KROLL, JOHN E; *THE UNSTABLE TURBULENT EKMAN LAYER AS A SOURCE OF VERTICALLY PROPAGATING NEAR-INERTIAL MOTION (OCE-8006048)*; 12 MONTHS $17,576

WASHINGTON

UNIVERSITY OF WASHINGTON

LORENZEN, CARL J; *NITROGEN EXPLOITATIVE STRATEGIES OF PHYTOPLANKTON (OCE-7717872 A01)*; 24 MONTHS $127,046

LEWIN, JOYCE, NORRIS, RICHARD E, AND BOOTH, BEATRICE; *TAXONOMY OF NORTH PACIFIC NANOPLANKTON (OCE-7725957 A01)*; 3 MONTHS $1,000

PAINE, ROBERT T; *FAUNAL AND TROPHIC STUDIES OF AN INTERTIDAL COMMUNITY (OCE-7726901 A03)*; 12 MONTHS $46,256

LARSEN, LAWRENCE H; *STUDIES ON FINITE AMPLITUDE, OCEAN WAVES (OCE-7811578 A01)*; 12 MONTHS $46,563

HEDGES, JOHN I; *A TEST OF THE MELANOIDIN HYPOTHESIS BY DEGRADATIVE STRUCTURAL ANALYSIS (OCE-7818260 A01)*; 12 MONTHS $53,320

FROST, BRUCE W; *RELATIVE ABUNDANCE OF COPEPOD SPECIES IN TEMPERATE-BOREAL PELAGIC COMMUNITIES (OCE-7818263 A01)*; 12 MONTHS $74,639

MURRAY, JAMES W; *NUTRIENT DIAGENESIS IN MARINE SEDIMENTS (OCE-7818746 A01)*; 12 MONTHS $43,000

MURRAY, JAMES W; *THE FATE OF TRACE METALS IN THE MARINE ENVIRONMENT (OCE-7819454 A01)*; 12 MONTHS $52,306

SMITH, J D; *TIME DEPENDENT TURBULENT BOUNDARY LAYERS IN TIDAL FLOWS (OCE-7820452 A01)*; 12 MONTHS $74,607

JUMARS, PETER A; *THE ROLE OF PREDATION IN SOFT-BOTTOM BENTHIC SUCCESSIONS (OCE-7824687 A01)*; 12 MONTHS $47,488

LANDRY, MICHAEL R; *SELECTIVE PREDATION BY CYCLOPOID COPEPODS (OCE-7825439 A01)*; 24 MONTHS $103,156

GREGG, MICHAEL C; *THE FILTERING OF OCEANIC TEMPERATURE AND CONDUCTIVITY DATA FOR FINESTRUCTURE STUDIES (OCE-7825441 A01*)*; 12 MONTHS $63,367

CLARKE, ALLAN J; *THE NONLINEAR GENERATION OF LONG PERIOD TIDES ON CONTINENTAL SHELVES (OCE-7907042 A01)*; 12 MONTHS $39,933

SMITH, J D; *MIXING IN HIGHLY STRATIFIED ESTUARIES (OCE-7906566 A01)*; 12 MONTHS $111,500

RATTRAY, MAURICE; *STUDIES IN MARINE HYDRODYNAMICS (OCE-7918366)*; 12 MONTHS $47,946

LORENZEN, CARL J; *ORIGIN AND DISTRIBUTION OF ORGANIC MATTER IN THE DEEP SEA (OCE-7918839)*; 12 MONTHS $94,823

DEVOL, ALLAN H; *STUDIES OF BIOCHEMICAL OXIDATION RATES IN MARINE SEDIMENTS (OCE-7919176*)*; 12 MONTHS $55,696

HICKEY, BARBARA M; *INVESTIGATIONS OF EASTERN BOUNDARY CURRENT SYSTEMS (OCE-7919952)*; 12 MONTHS $72,933

AHMED, SAIYED I; *COMPARATIVE STUDIES OF ENZYMES INVOLVED IN AMMONIA-N ASSIMILATION INTO AMINO ACIDS IN SEVERAL SPECIES OF MARINE PHYTOPLANKTON (OCE-7919591*)*; 12 MONTHS $95,386

CREAGER, JOE S, AND MC MANUS, DEAN A; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: UNIVERSITY OF WASHINGTON (OCE-7924390*)*; 12 MONTHS $10,836

JOHNSON, HARLAN P, DELANEY, JOHN R, AND LEWIS, BRIAN T; *HOT SPOT-RIDGE CREST-FRACTURE ZONE DYNAMICS: A COMPREHENSIVE STUDY OF THE JUAN DE FUCA - GORDA RIDGE SYSTEM (OCE-7925041)*; 12 MONTHS $148,346

WELANDER, PIERRE; *THEORETICAL MODELLING OF OCEAN CIRCULATION AND OCEANATMOSPHERE INTERACTION (OCE-8007927)*; 12 MONTHS $37,005

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

SHANKS, WAYNE C; *GEOCHEMICAL STUDIES OF THE RED SEA GEOTHERMAL SYSTEM (OCE-7905481 A01)*; $4,525

MAGNUSON, JOHN J, CLAY, CLARENCE S, AND REEDER, WILLIAM G; *DISTRIBUTIONAL ECOLOGY OF FISHES AND MACROINVERTEBRATES AS RELATED TO DAILY AND SEASONAL DYNAMICS OF WATER MASSES ON THE CONTINENTAL SHELF (OCE-7821399 A01)*; 12 MONTHS $51,653

ENVIRONMENTAL SCIENCE

CALIFORNIA

STANFORD UNIVERSITY

STURROCK, PETER A, AND EMSLIE, A G; *WORKSHOP ON THE STUDY OF ENERGY RELEASE IN FLARES (ATM-8016541)*; 6 MONTHS $5,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

DENIRO, MICHAEL J; *ANALYSIS OF BIOLOGICAL PROCESSES WHICH AFFECT CLIMATIC RECONSTRUCTION BASED ON STABLE ISOTOPE RATIOS OF TREE RINGS (ATM-7924591*)*; 12 MONTHS $19,450

UNIVERSITY OF CALIFORNIA, SAN DIEGO

COLES, WILLIAM A, RICKETT, BARNABY J, AND RUMSEY, VICTOR H; *RADIOWAVE DIAGNOSTIC STUDIES OF THE EARTH'S PLASMA ENVIRONMENT (ATM-8012801*)*; 24 MONTHS $5,000

COLORADO

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

WHITE, ROBERT M; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7723757 A05*)*; $9,310

WHITE, ROBERT M; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7723757 A03*)*; $18,532

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

KASPER, RAPHAEL; *PARTIAL SUPPORT OF THE INTERNATIONAL ENVIRONMENTAL PROGRAMS COMMITTEE (INT-7826469 A02*)*; 12 MONTHS $6,000

WASHINGTON

UNIVERSITY OF WASHINGTON

RADKE, LAWRENCE F, AND HOBBS, PETER V; *AIRBORNE STUDIES OF ANTARCTIC AEROSOLS: VOLCANIC, MARINE AND ANTHROPOGENIC (DPP-7920857 A01*)*; $20,000

ASTRONOMY

ARIZONA

ARIZONA STATE UNIVERSITY

STARRFIELD, SUMNER; *THEORETICAL AND OBSERVATIONAL STUDIES OF THE NOVA OUTBURST AND RELATED OBJECTS (AST-7921073)*; 12 MONTHS $36,900

LOWELL OBSERVATORY

HOAG, ARTHUR A; *TELESCOPE AND INSTRUMENTATION OPERATIONAL SUPPORT, LOWELL OBSERVATORY (AST-7908994)*; 60 MONTHS $80,300

WHITE, NATHANIEL M; *PHOTOELECTRIC OBSERVATIONS OF LUNAR OCCULTATIONS (AST-7916150 A01)*; 12 MONTHS $34,200

UNIVERSITY OF ARIZONA

DAY, KENRICK L AND WILKENING, LAUREL L; *A LABORATORY STUDY OF SILICATE CONDENSATION (AST-7911896 A02)*; 12 MONTHS $33,700

THOMPSON, RODGER I; *INFRARED STUDIES OF STAR FORMATION (AST-7830393 A01)*; 12 MONTHS $61,700

LIEBERT, JAMES W; *STUDIES OF WHITE DWARF STARS AND PRE-WHITE DWARF STAR EVOLUTION (AST-7921071 A02)*; 12 MONTHS $43,700

RIEKE, GEORGE H, AND LEBOFSKY, MARCIA J; *STUDIES OF EXTRAGALACTIC INFRARED SOURCES (AST-7922482 A01)*; 12 MONTHS $109,600

ANGEL, J R P; *STUDIES OF POLARIZATION IN ASTRONOMICAL OBJECTS (AST-7922714 A01*)*; 12 MONTHS $72,500

SERKOWSKI, KRZYSZTOF M; *SEARCH FOR LOW MASS COMPANIONS OF SOLAR-TYPE STARS USING A FABRY-PEROT SPECTROMETER (AST-7923107 A01)*; 12 MONTHS $50,200

LOW, FRANK J; *CONTINUED DEVELOPMENT OF SPATIAL INTERFEROMETRY AT INFRARED WAVELENGTHS (AST-7902869 A01)*; 12 MONTHS $109,700

HILL, HENRY A, AND CAUDELL, THOMAS P; *SOLAR SEISMOLOGY (AST-7908558 A01)*; 12 MONTHS $60,000

BROWN, ROBERT A; *A SPECTROPHOTOMETRIC FACILITY FOR PLANETARY ASTRONOMY (AST-7916478)*; 15 MONTHS $101,200

CRAINE, ERIC R; *NEAR INFRARED PHOTOGRAPHIC SKY SURVEY (AST-7918164)*; 12 MONTHS $88,600

AARONSON, MARC A; *OBSERVATIONAL STUDIES OF EXTRAGALACTIC OBJECTS (AST-7921663)*; 24 MONTHS $62,800

GEHRELS, A M, AND COYNE, GEORGE V; *ASTRONOMICAL POLARIMETRY (AST-7923583*)*; 12 MONTHS $86,000

THOMPSON, RODGER I; *STEWARD OBSERVATORY DATA PROCESSING FACILITIES (AST-7923762)*; 12 MONTHS $114,900

STRITTMATTER, P A, WEYMANN, RAY J, WILLIAMS, R E, AND SCOTT, JOHN S; *SPECTROSCOPIC STUDIES OF QUASI-STELLAR OBJECTS (AST-7923772*)*; 12 MONTHS $71,800

STOCKMAN, H S; *CCD CAMERA DEVELOPMENT FOR ASTRONOMICAL INSTRUMENTATION (AST-7923954)*; 12 MONTHS $94,635

LOW, FRANK J, AND BECKERS, JACQUES M; *EVALUATION AND OPTIMIZATION OF THE MULTIPLE MIRROR TELESCOPE (AST-7925421)*; 12 MONTHS $160,000

HUBBARD, WILLIAM B; *OBSERVATION OF OCCULTATION OF SAO 80850 BY THE ASTEROID (9) METIS DECEMBER 11, 1979 (AST-8002061)*; 6 MONTHS $9,000

COYNE, GEORGE V; *SUPPORT FOR ASTRONOMICAL RESEARCH AT THE STEWARD OBSERVATORY OF THE UNIVERSITY OF ARIZONA (AST-8002095)*; 12 MONTHS $50,600

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

NEUGEBAUER, GERRY; *OBSERVATIONAL PROGRAM IN GROUND-BASED INFRARED ASTRONOMY (AST-7720516 A02)*; 12 MONTHS $164,200

SCHMIDT, MAARTEN; *SPECTROSCOPIC OBSERVATIONS OF QUASARS (AST-7722615 A01)*; 24 MONTHS $129,900

OKE, J B, AND PRESTON, GEORGE W; *NEW GRATINGS FOR THE PALOMAR 5-METER HALE TELESCOPE COUDE SPECTROGRAPH (AST-7724738)*; 24 MONTHS $89,000

BLANDFORD, ROGER D; *THEORETICAL ASTROPHYSICS (AST-7905484 A01)*; 12 MONTHS $40,200

GOLDREICH, PETER; *THEORETICAL ASTROPHYSICS RESEARCH (AST-7921453 A01)*; 12 MONTHS $64,100

SARGENT, W L; *SUPERNOVAE AND EXTRAGALACTIC RESEARCH (AST-7823795 A01)*; 12 MONTHS $80,400

OKE, J B, AND GUNN, JAMES E; *A COSMOLOGICAL STUDY OF VERY FAINT GALAXIES (AST-7824842 A01)*; 12 MONTHS $72,400

MUHLEMAN, DUANE O; *PLANETARY INVESTIGATIONS AT THE OWENS VALLEY RADIO OBSERVATORY (AST-7911806)*; 12 MONTHS $41,600

READHEAD, ANTHONY C, AND MOFFET, ALAN T; *EXTRAGALACTIC RESEARCH AT THE OWENS VALLEY RADIO OBSERVATORY (AST-7913249)*; 12 MONTHS $493,900

ZIRIN, HAROLD; *SOLAR RESEARCH AT THE OWENS VALLEY RADIO OBSERVATORY (AST-7916149)*; 12 MONTHS $67,600

MOFFET, ALAN T, LEIGHTON, ROBERT B, AND WANNIER, PETER G; *MILLIMETER-WAVE INTERFEROMETRY AT THE OWENS VALLEY RADIO OBSERVATORY (AST-7916815)*; 12 MONTHS $358,400

THORNE, KIP S, AND GUNN, JAMES E; *RELATIVISTIC ASTROPHYSICS (AST-7922012)*; 12 MONTHS $206,000

YOUNG, PETER J; *OBSERVATIONAL ASTROPHYSICS AND COSMOLOGY (AST-8003398*)*; 12 MONTHS $52,700

PHILLIPS, THOMAS G; *MILLIMETER AND SUBMILLIMETER WAVELENGTH SPECTRONOMY OF INTERSTELLAR GAS (AST-8007645*)*; 6 MONTHS $50,200

INDIVIDUAL AWARD

PETERSON, RUTH C; *CHARACTERISTICS OF NUCLEOSYNTHESIS AND STELLAR POPULATIONS DISCERNED FROM ABUNDANCE ANALYSES OF METAL-POOR STARS (AST-7925890)*; 24 MONTHS $49,700

LA JOLLA INSTITUTE

MEYEROTT, ROLAND E; *SUPPORT FOR WORKSHOP ON ATOMIC PHYSICS AND SPECTROSCOPY AS THEY RELATE TO THE INTERPRETATION OF SUPERNOVA SPECTRA (AST-8009074)*; 12 MONTHS $3,500

MISSION RESEARCH CORPORATION

STELLINGWERF, ROBERT F; *STABILITY OF STARS AND CIRCUMSTELLAR FLOW (AST-8019657)*; 24 MONTHS $51,100

UNIVERSITY OF CALIFORNIA, BERKELEY

HEILES, CARL; *STUDIES OF THE INTERSTELLAR GAS AND MAGNETIC FIELD (AST-7908713 A01)*; 12 MONTHS $109,000

KING, IVAN R; *STRUCTURE OF STELLAR SYSTEMS (AST-7907491 A01)*; 12 MONTHS $34,000

WELCH, WILLIAM J; *RADIO ASTRONOMICAL STUDIES (AST-7911037 A01)*; 12 MONTHS $782,900

ARONS, JONATHAN; *THEORETICAL INVESTIGATIONS OF X-RAY SOURCES (AST-7911070 A01)*; 12 MONTHS $44,100

SHU, FRANK H; *STELLAR ASTROPHYSICS (AST-7917594 A01)*; 12 MONTHS $36,100

KUHI, LEONARD V; *OBSERVATIONAL AND THEORETICAL STUDIES OF PRE-MAIN SEQUENCE EVOLUTION (AST-7902966 A01)*; 12 MONTHS $55,700

SILK, JOSEPH I; *RESEARCH IN THEORETICAL ASTROPHYSICS AND COSMOLOGY (AST-7915244)*; 24 MONTHS $44,800

TOWNES, CHARLES H; *INFRARED HETERODYNE SPECTROSCOPY (AST-7920845)*; 12 MONTHS $50,800

PHILLIPS, JOHN G, AND DAVIS, SUMNER P; *ANALYSIS OF MOLECULAR SPECTRA (AST-7921321)*; 12 MONTHS $71,900

MCKEE, C F, ARONS, JONATHAN, AND KNOBLOCH, EDGAR; *THEORETICAL ASTROPHYSICS (AST-7913943)*; 12 MONTHS $108,000

BOWYER, C S; *OPTICAL OBSERVATIONS OF CELESTIAL X-RAY SOURCES (AST-8005874)*; 12 MONTHS $36,200

UNIVERSITY OF CALIFORNIA, LOS ANGELES

ULRICH, ROGER K; *RESEARCH INTO THE THEORY OF STELLAR STRUCTURE AND EVOLUTION (AST-7820236 A01)*; 12 MONTHS $60,200

FLAVEC, MIROSLAV M, AND POPPER, DANIEL M; *INVESTIGATIONS OF CLOSE BINARY STARS (AST-7925012)*; 12 MONTHS $77,800

UNIVERSITY OF CALIFORNIA, SAN DIEGO

MENDIS, D ASOKA, AND ALFVEN, HANNES; *A THEORETICAL INVESTIGATION OF THE COMPOSITION AND STRUCTURE OF COMETS (AST-7819908 A01)*; 12 MONTHS $27,500

LINGENFELTER, RICHARD E; *STUDIES OF GAMMA-RAY EMISSION FROM ASTROPHYSICAL SOURCES (AST-7911982 A01)*; 12 MONTHS $34,500

WILLNER, STEVEN P, AND SMITH, HARDING E; *OBSERVATIONAL STUDIES IN GALACTIC AND EXTRAGALACTIC ASTROPHYSICS (AST-7916335)*; 24 MONTHS $120,000

CANFIELD, RICHARD C; *RADIATIVE TRANSFER EFFECTS IN QUASI-STELLAR OBJECTS (QSO) EMISSION LINE CLOUDS (AST-7919842)*; 12 MONTHS $24,900

BURBIDGE, E MARGARET, AND SMITH, HARDING E; *EXTERNAL GALAXIES AND QUASI-STELLAR OBJECTS (AST-7920032)*; 12 MONTHS $169,200

UNIVERSITY OF CALIFORNIA, SANTA CRUZ-LICK OBSERVATORY

WALKER, MERLE F; *ELECTRONOGRAPHIC ASTRONOMICAL PHOTOMETRY (AST-7514317 A02)*; 6 MONTHS $10,000

KRAFT, ROBERT P; *A STUDY OF THE GALACTIC HALO BASED ON RR LYRAE STARS (AST-7808812 A01)*; 12 MONTHS $14,400

KLEMOLA, ARNOLD R, AND JONES, BURTON F; *STELLAR PROPER MOTIONS AND PARALLAXES (AST-7908033 A01)*; 12 MONTHS $75,700

VOGT, STEVEN S, HERBIG, GEORGE H, AND ROBINSON, LLOYD B; *DEVELOPMENT OF A PANORAMIC DETECTOR SYSTEM FOR ZEEMAN ANALYSIS AND HIGH DISPERSION ASTRONOMICAL SPECTROPHOTOMETRY (AST-7916813)*; 24 MONTHS $99,800

BODENHEIMER, PETER H; *THEORETICAL COSMOGONY (AST-7901263)*; 12 MONTHS $30,000

WOOSLEY, STANFORD E, KRAFT, ROBERT P, AND OSTERBROCK, DONALD E; *SUMMER WORKSHOP IN ASTRONOMY AND ASTROPHYSICS AT UNIVERSITY OF CALIFORNIA, SANTA CRUZ (AST-8004440)*; 12 MONTHS $7,800

WHITFORD, ALBERT E; *CHARACTERISTICS OF GIANT STARS IN THE NUCLEAR BULGE OF THE GALAXY (AST-8004467)*; 12 MONTHS $17,800

JONES, BURTON F, AND ROBINSON, LLOYD B; *UPGRADING THE LICK OBSERVATORY AUTOMATIC MEASURING ENGINE (AST-8012935)*; 12 MONTHS $55,400

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

OSTERBROCK, DONALD E; *STUDIES OF IONIZED GAS IN GALAXIES, QUASERS, AND NEBULAE (AST-7913027)*; 12 MONTHS $58,800

COLORADO

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

BRETHERTON, FRANCIS P; *OPERATION, MAINTENANCE AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (ATM-7733757 A54)*; $25,800

UNIVERSITY OF COLORADO AT BOULDER

SMITH, DEAN F, AND GOLDMAN, MARTIN V; *PULSAR MAGNETOSPHERES (AST-7819496 A01)*; 12 MONTHS $30,000

CONTI, PETER S; *SPECTROSCOPIC STUDIES OF O-TYPE AND WOLF-RAYET TYPE STARS (AST-7918388)*; 12 MONTHS $71,000

COX, JOHN P, AND HANSEN, CARL J; *BASIC RESEARCH IN THE FIELD OF STELLAR STRUCTURE AND EVOLUTION (AST-7922254)*; 12 MONTHS $60,700

UNIVERSITY OF DENVER

EVERHART, EDGAR; *ORIGIN OF COMETS AND THE EVOLUTION OF THEIR ORBITS (AST-7917513 A01)*; 12 MONTHS $20,500

CONNECTICUT

WESLEYAN UNIVERSITY

UPGREN, ARTHUR R; *PARALLAXES OF NORTHERN AND SOUTHERN STARS (AST-7919007 A01)*; 12 MONTHS $20,600

UPGREN, ARTHUR R; *THE MEASUREMENT OF STELLAR PARALLAXES AND PROPER MOTIONS (AST-8001675)*; 12 MONTHS $40,300

YALE UNIVERSITY

VAN ALTENA, WILLIAM F; *STELLAR PARALLAXES AND PROPER MOTION (AST-7681339 A03)*; $7,736

TINSLEY, BEATRICE M; *GALACTIC EVOLUTION AND RELATED STUDIES (AST-7723566 A02)*; 12 MONTHS $70,200

VAN ALTENA, WILLIAM F, AND HOFFLEIT, DORRIT; *REVISION OF YALE CATALOGUE OF BRIGHT STARS AND THE GENERAL CATALOGUE OF TRIGONOMETRIC STELLAR PARALLAXES (AST-8010823)*; 6 MONTHS $33,700

VAN ALTENA, WILLIAM F; *ASTROMETRIC RESEARCH AT YALE UNIVERSITY OBSERVATORY (AST-8012725*)*; 12 MONTHS $119,100

DISTRICT OF COLUMBIA

CARNEGIE INSTITUTION OF WASHINGTON

HOWARD, ROBERT; *SOLAR MAGNETIC AND VELOCITY FIELDS (AST-7724752 A02)*; 12 MONTHS $56,000

SEARLE, LEONARD, AND SHECTMAN, STEPHEN A; *RESEARCH WITH PHOTON-COUNTING SPECTROMETER SYSTEMS AT THE HALE OBSERVATORIES (AST-7911332 A01)*; $5,600

VAUGHAN, ARTHUR H, AND PRESTON, GEORGE W; *OBSERVATIONAL STUDIES OF VARIABLE CHROMOSPHERIC ACTIVITY IN SOLAR-LIKE STARS (AST-7921070)*; 12 MONTHS $53,000

HOWARD, ROBERT; *RESEARCH ON SOLAR ACTIVITY DURING THE SOLAR MAXIMUM YEAR (AST-8001654)*; 12 MONTHS $40,441

NATIONAL ACADEMY OF SCIENCES

GREGORY, BRUCE N; *A STUDY OF THE NEEDS OF ASTRONOMY AND ASTROPHYSICS FOR THE 1980'S (AST-7829089 A03)*; $100,000

DOW, RICHARD Y; *SUPPORT OF THE COMMITTEE ON RADIO FREQUENCIES (AST-8001152)*; 12 MONTHS $35,000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

BRUNK, WILLIAM E; *NSF PORTION OF VISITOR SUPPORT COSTS FOR THE INFRARED TELESCOPE FACILITY (IRTF) (AST-8007397)*; 12 MONTHS $50,000

FLORIDA

UNIVERSITY OF FLORIDA

BUCHLER, J. ROBERT; *DYNAMIC PHASES OF STELLAR EVOLUTION (AST-7908014)*; 24 MONTHS $80,800

SMITH, ALEX G; *MEASUREMENT AND ANALYSIS OF VARIABLE PLANETARY AND EXTRAGALACTIC EMISSIONS AT RADIO AND OPTICAL FREQUENCIES (AST-8000246)*; 12 MONTHS $139,100

WILSON, ROBERT E; *NATURE OF SHORT PERIOD BINARIES FROM AN OBSERVATIONAL VIEWPOINT (AST-8018918)*; 12 MONTHS $10,000

GEORGIA

GEORGIA STATE UNIVERSITY

MCALISTER, HAROLD A; *A SPECKLE CAMERA FOR BINARY STAR ASTROMETRY AND PHOTOMETRY (AST-7924587)*; 12 MONTHS $104,000

MCALISTER, HAROLD A; *BINARY STAR SPECKLE INTERFEROMETRY (AST-8013791)*; 15 MONTHS $36,300

HAWAII

UNIVERSITY OF HAWAII-MANOA

STOCKTON, ALAN N; *SPECTROSCOPIC STUDY OF GALAXIES ASSOCIATED WITH QUASI-STELLAR OBJECTS (AST-7921946 A01*)*; 12 MONTHS $55,000

BOESGAARD, ANN M; *A STUDY OF BERYLLIUM IN STARS (AST-7908021)*; 24 MONTHS $53,800

TULLY, R BRENT; *STRUCTURE IN THE UNIVERSE: RADIO AND OPTICAL OBSERVATIONS OF NEARBY GALAXIES (AST-7920040)*; 12 MONTHS $23,700

JEFFERIES, JOHN T; *AN INTERACTIVE DATA PROCESSING SYSTEM FOR THE INSTITUTE FOR ASTRONOMY (AST-7924401)*; 12 MONTHS $129,800

WOLFF, SIDNEY C; *THE B-TYPE STARS: CLUES TO GALACTIC CHEMICAL EVOLUTION (AST-7927154)*; 24 MONTHS $54,000

LANGHOFF, DONALD A; *PROTON EXCITATION OF CORONAL AND TRANSITION REGION IONS (AST-8000695)*; 12 MONTHS $19,000

WOLFF, SIDNEY C; *PULSE-COUNTING ARRAY DETECTORS FOR SPECTROSCOPY (AST-8002083)*; 12 MONTHS $56,400

MORRISON, DAVID; *INTERNATIONAL CONFERENCE ON THE SATELLITES OF JUPITER (AST-8005769)*; 12 MONTHS $3,500

ILLINOIS

NORTHWESTERN UNIVERSITY

ANDERSON, CHRISTOPH M; *MIDWESTERN ASTRONOMICAL DATA REDUCTION AND ANALYSIS FACILITY (AST-7900894 A01)*; 12 MONTHS $192,800

TAAM, RONALD; *NUCLEAR FUSION IN ACCRETING NEUTRON STARS (AST-7914852)*; 24 MONTHS $65,900

UNIVERSITY OF CHICAGO

ARNETT, W D; *THE GRAVITATIONAL COLLAPSE OF STARS AND 2ND CLEAR ASTROPHYSICS (AST-7909197 A01)*; 12 MONTHS $94,700

SCHRAMM, DAVID N; *NUCLEAR ASTROPHYSICS AND THE ORIGIN OF THE ELEMENTS (AST-7900400 A01)*; 12 MONTHS $87,900

KRON, RICHARD G; *OBSERVATIONS OF DISTANT STELLAR SYSTEMS (AST-7920994)*; 12 MONTHS $25,400

CUDWORTH, KYLE M; *YERKES OBSERVATORY ASTROMETRIC PROGRAM (AST-8007275)*; 12 MONTHS $50,000

UNIVERSITY OF ILLINOIS AT URBANA

YOSS, KENNETH M; *RADIAL VELOCITIES OF G AND K GIANTS LYING MORE THAN 500 PC ABOVE THE GALACTIC PLANE (AST-7808621 A01)*; 12 MONTHS $38,700

OLSON, EDWARD C; *A SEARCH FOR ERUPTIVE MASS TRANSFER IN ALGOL-LIKE ECLIPSING BINARY STARS (AST-7814469 A01)*; 12 MONTHS $31,000

TRURAN, JAMES W; *RESEARCH IN NUCLEAR ASTROPHYSICS (AST-7820123 A01)*; 12 MONTHS $84,600

IBEN, ICKO; *STUDIES IN STELLAR STRUCTURE AND EVOLUTION (AST-7820124 A01)*; 12 MONTHS $100,400

KALER, JAMES B; *THE COMPOSITIONS AND EVOLUTION OF PLANETARY NEBULAE (AST-7823647 A01)*; 12 MONTHS $23,200

WATSON, WILLIAM D; *THEORY OF THE INTERSTELLAR MEDIUM (AST-7823648 A01)*; 12 MONTHS $75,400

SWENSON, GEORGE W; *RESEARCH IN RADIO ASTRONOMY (AST-7901690 A01)*; 12 MONTHS $40,900

SNYDER, LEWIS E; *RADIO OBSERVATIONS OF INTERSTELLAR CLOUDS, CIRCUMSTELLAR SHELLS, AND COMETS (AST-7907830 A01)*; 12 MONTHS $76,000

GALLAGHER, JOHN S; *OBSERVATIONAL INVESTIGATIONS OF FACTORS CONTROLLING THE EVOLUTION OF GALAXIES (AST-7909977)*; 24 MONTHS $70,800

MOUSCHOVIAS, T; *THEORETICAL STUDIES OF INTERSTELLAR GAS DYNAMICS AND STAR FORMATION IN THE PRESENCE OF MAGNETIC FIELDS (AST-8000467*)*; 12 MONTHS $32,000

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

JOHNSON, HOLLIS R; *ATMOSPHERES OF COOL STARS (AST-7913149)*; 12 MONTHS $56,300

PURDUE UNIVERSITY

MOFFETT, THOMAS J; *SIMULTANEOUS PHOTOMETRIC AND RADIAL VELOCITY OBSERVATIONS OF CLASSICAL CEPHEIDS. A COLLABORATIVE INVESTIGATION BY PURDUE UNIVERSITY AND THE UNIVERSITY OF TEXAS AT AUSTIN (AST-7919913)*; 24 MONTHS $24,500

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

BEAVERS, WILLET I; *LUNAR OCCULTATION STUDIES (AST-7912691)*; 12 MONTHS $25,500

BEAVERS, WILLET I; *F CORONA RADIAL VELOCITY MEASUREMENTS AT THE FEBRUARY 16, 1980 TOTAL SOLAR ECLIPSE (AST-7921980)*; 12 MONTHS $34,200

BEAVERS, WILLET I; *F CORONA RADIAL VELOCITY MEASUREMENTS AT THE FEBRUARY 16, 1980 TOTAL ECLIPSE (AST-7921980 A01)*; $6,100

UNIVERSITY OF IOWA

FIX, JOHN D; *HYDROXYL MASERS AND THE STRUCTURE OF LONG PERIOD VARIABLE CIRCUMSTELLAR MASS FLOW (AST-7925076)*; 24 MONTHS $22,700

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

SHAWL, STEPHEN J; *STUDIES OF FUNDAMENTAL PROPERTIES OF GLOBULAR CLUSTERS IN THE MILKY WAY GALAXY (AST-8000001)*; 24 MONTHS $21,400

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

BOND, HOWARD E; *STUDIES OF POPULATION II STARS AND SUPERGIANT STARS (AST-7825598 A01)*; 12 MONTHS $40,100

ENDAL, ANDREW S; *THEORETICAL STUDIES OF THE EVOLUTION OF ROTATING STARS (AST-7919659)*; 24 MONTHS $23,000

MARYLAND

UNIVERSITY OF MARYLAND, COLLEGE PARK

HARRINGTON, J P; *IONIZATION MODELS OF PLANETARY NEBULAE (AST-7907490 A01)*; 24 MONTHS $33,900

ERICKSON, WILLIAM C, AND KUNDU, MUKUL R; *OPERATION OF THE CLARK LAKE RADIO TELESCOPE (AST-7908942 A01)*; 12 MONTHS $360,000

WILSON, ANDREW S; *INVESTIGATIONS OF ACTIVE GALACTIC NUCLEI (AST-7924381)*; 12 MONTHS $20,800

ECHLER, DAVID S; *THE SELF-REGULATING INJECTION MODEL OF COSMIC RAY ORIGIN (AST-8008873)*; 24 MONTHS $55,200

SCHMAHL, EDWARD J, GERGELY, TOMAS E, AND KUNDU, MUKUL R; *RADIO STUDIES OF LARGE SCALE STRUCTURES OF ACTIVE AND FLARING REGIONS DURING THE SOLAR MAXIMUM YEAR (AST-8009050*)*; 24 MONTHS $65,450

MASSACHUSETTS

AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS

MATTEI, JANET A; *THE REDUCTION OF OBSERVATIONS OF 2000 VARIABLE STARS (AST-7916570)*; 24 MONTHS $30,000

ATMOSPHERIC AND ENVIRONMENTAL RESEARCH INC

FOUKAL, PETER V; *A STUDY OF THE ROLE OF ELECTRIC FIELDS IN THE DYNAMICS OF THE SOLAR CORONA (AST-7923132)*; 12 MONTHS $30,200

FOUKAL, PETER V; *A STUDY OF THE DYNAMICS OF MAGNETIC FIELDS IN THE SOLAR CONVECTION ZONE (AST-8001498*)*; 12 MONTHS $49,850

BOSTON UNIVERSITY

BRECHER, KENNETH; *THEORETICAL ASTROPHYSICS AND COSMOLOGY (AST-7919003 A01)*; 12 MONTHS $39,000

HARVARD UNIVERSITY

CAMERON, A G W; *THEORETICAL STUDIES IN NUCLEAR SYNTHESIS AND ASTROPHYSICS (AST-7921999)*; 12 MONTHS $49,500

HARVARD UNIVERSITY-OBSERVATORY

LILLER, WILLIAM, AND GRINDLAY, JONATHAN E; *OPTICAL STUDIES OF HIGHLY ENERGETIC ASTRONOMICAL SOURCES (AST-7828814 A01)*; 12 MONTHS $43,000

DAVIS, MARC; *A COMPLETE SURVEY OF GALAXY REDSHIFTS TO MB = 14.5 USING A PHOTON-COUNTING DETECTOR ARRAY (AST-7824856 A01)*; 12 MONTHS $58,900

DALGARNO, ALEXANDER; *THEORETICAL STUDIES OF INTERSTELLAR MATTER (AST-7906373)*; 24 MONTHS $91,000

FLANNERY, BRIAN P; *STUDIES IN THE STRUCTURE OF INTERSTELLAR CLOUDS AND EVOLVING BINARY STARS (AST-8002404*)*; 24 MONTHS $35,000

MARIA MITCHELL OBSERVATORY

BELSERENE, EMILIA P; *VARIABLE STARS (AST-8005162)*; 12 MONTHS $4,800

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

MORRISON, PHILIP; *THEORETICAL ASTROPHYSICS AND COSMOLOGY (AST-7722907 A01)*; 12 MONTHS $39,000

LIN, CHIA-CHIA, AND TOOMRE, ALAR; *DYNAMICS OF GALAXIES (MCS-7804888 A03*)*; 12 MONTHS $43,200

STAELIN, DAVID H, AND SHAO, MICHAEL; *LONG BASELINE STELLAR INTERFEROMETER FOR ASTROMETRY, PHASE 2 (AST-7919553)*; 12 MONTHS $109,700

BURKE, BERNARD F; *GALACTIC AND EXTRAGALACTIC ASTRONOMY (AST-7920984)*; 12 MONTHS $255,000

BARRETT, ALAN H, AND MYERS, PHILIP C; *RADIO OBSERVATIONS OF INTERSTELLAR MOLECULES (AST-7925075)*; 12 MONTHS $144,000

ELLIOT, JAMES L; *OCCULTATIONS OF PLANETS AND DOUBLE STARS (AST-8010639)*; 12 MONTHS $49,950

NORTHEAST RADIO OBSERVATORY CORPORATION

SEBRING, PAUL B; *RADIO ASTRONOMY OPERATIONS AND INSTRUMENTATION AT THE HAYSTACK OBSERVATORY (AST-7920169)*; 12 MONTHS $986,300

ZISK, STANLEY H; *RADIO ASTRONOMICAL INVESTIGATIONS OF MOLECULAR LINE EMISSION IN THE 30-25 GHZ REGION (INT-7924843*)*; 18 MONTHS $14,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

TAYLOR, JOSEPH H; *RADIO OBSERVATIONS OF PULSARS (AST-7919219)*; 12 MONTHS $66,600

HUGUENIN, G RICHARD; *ASTRONOMY RESEARCH AT THE FIVE COLLEGE RADIO ASTRONOMY OBSERVATORY (AST-7919021*)*; 12 MONTHS $900,000

WILLIAMS COLLEGE

PASACHOFF, JAY M; *CORONAL OSCILLATIONS AT THE 1980 SOLAR ECLIPSE AND CORONAL HEATING (AST-7922104)*; 12 MONTHS $14,400

MICHIGAN

MICHIGAN STATE UNIVERSITY

STEIN, ROBERT F; *ASTROPHYSICAL FLUID DYNAMIC STUDIES (AST-7919465*)*; 24 MONTHS $40,000

LINNELL, ALBERT P; *A STUDY OF THE CLOSE BINARY SYSTEM VW CEPHEI (AST-8002116)*; 12 MONTHS $20,000

UNIVERSITY OF MICHIGAN

COWLEY, CHARLES R, AND HOUK, NANCY M; *TWO-DIMENSIONAL CLASSIFICATION OF STARS OF SOUTHERN DECLINATION IN THE HENRY DRAPER CATALOGUE (AST-7727744 A01)*; 36 MONTHS $185,700

COWLEY, ANNE P; *STUDIES OF PECULIAR STELLAR SPECTRA (AST-7815852 A01)*; 12 MONTHS $51,500

HADDOCK, FRED T. AND ALLER, HUGH D; *RADIO ASTRONOMY (AST-7922197 A01)*; 12 MONTHS $244,800
MACALPINE, GORDON M; *INVESTIGATIONS OF QUASI-STELLAR OBJECTS AND ACTIVE GALAXIES (AST-7908815)*; 12 MONTHS $14,000

MINNESOTA

UNIVERSITY OF MINNESOTA

STEIN, WAYNE A. AND NEY, EDWARD P; *RESEARCH IN INFRARED ASTRONOMY AT THE MT. LEMMON OBSERVING FACILITY (AST-7914449 A01)*; 12 MONTHS $200,200
HUMPHREYS, ROBERTA M; *STUDIES OF LUMINOUS STARS IN NEARBY GALAXIES (AST-7918500 A01)*; 12 MONTHS $64,100
JONES, THOMAS W. AND JONES, THOMAS W; *RADIO STUDIES OF QSO'S AND RELATED OBJECTS (AST-7906954)*; 12 MONTHS $39,600
DAVIDSON, KRIS; *OBSERVATIONS AND ANALYSES OF SPECIAL EMISSION-LINE OBJECTS (AST-7916747)*; 12 MONTHS $9,000
HUMPHREYS, ROBERTA M. AND LANDAU, ROBERT; *REDEVELOPMENT OF THE AUTOMATED PLATE SCANNER AT THE UNIVERSITY OF MINNESOTA (AST-7908382)*; 12 MONTHS $251,000
BURTON, W B; *INVESTIGATIONS OF INTERSTELLAR MATERIAL IN THE GALAXY AND IN THE GALACTIC CENTER (AST-7921912)*; 12 MONTHS $45,200
VAN DER HULST, JAN M; *STUDIES OF THE RADIO CONTINUUM AND 21-CM LINE EMISSION OF SPIRAL AND IRREGULAR GALAXIES (AST-7922904)*; 12 MONTHS $22,700

UNIVERSITY OF MINNESOTA AT SAINT PAUL

NEY, EDWARD P; *INFRARED OBSERVATIONS OF THE SOLAR CORONA (AST-7924371)*; 6 MONTHS $35,100

MISSOURI

UNIVERSITY OF MISSOURI, ST LOUIS

SCHWARTZ, RICHARD D; *OBSERVATIONAL AND THEORETICAL STUDIES OF HERBIG-HARO OBJECTS (AST-7909787 A02)*; 24 MONTHS $27,400

WASHINGTON UNIVERSITY

SMITH, WILLIAM H; *LABORATORY AND OBSERVATIONAL SPECTROSCOPIC STUDIES OF MOLECULES AND PROCESSES OF ASTROPHYSICAL INTEREST (AST-7912709 A01)*; 12 MONTHS $94,600

NEW JERSEY

INDIVIDUAL AWARD

BOOD, HERBERT J; *THE STRUCTURE OF SYSTEMS OF GALAXIES (AST-7717958 A01)*; 12 MONTHS $7,000

PRINCETON UNIVERSITY

TURNER, EDWIN L; *COMPUTER-CONTROLLED PHOTOGRAPHIC PHOTOMETRY SYSTEM (AST-7812484 A01)*; 12 MONTHS $34,600
SCHWARZSCHILD, MARTIN; *STUDIES OF THE DYNAMICS OF ELLIPTICAL GALAXIES (AST-7922796 A01)*; 12 MONTHS $35,000
YORK, DONALD G; *A CCD CAMERA FOR ASTRONOMICAL RESEARCH (AST-7905094)*; 12 MONTHS $112,400
BAHCALL, NETA A; *RESEARCH IN GALACTIC AND EXTRAGALACTIC ASTROPHYSICS (AST-7908944)*; 12 MONTHS $30,700
OSTRIKER, JEREMIAH P; *THEORETICAL GALACTIC DYNAMICS (AST-7920874)*; 12 MONTHS $80,000
TURNER, EDWIN L; *AN OBSERVATIONAL STUDY OF THE EVOLUTION OF GALAXIES AND QUASARS (AST-7923507)*; 12 MONTHS $32,000

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

COLGATE, STIRLING A. AND PETSCHEK, ALBERT G; *EXPLOSIVE HIGH ENERGY ASTROPHYSICS: PHENOMENA IN SUPERNOVAE AND QUASARS (AST-8007449)*; 24 MONTHS $43,700

NEW MEXICO STATE UNIVERSITY

BEEBE, RETA F; *A STUDY OF THE TIME-DEPENDENT PHENOMENA IN THE JOVIAN ATMOSPHERE (AST-8010836)*; 12 MONTHS $35,100

NEW YORK

COLUMBIA UNIVERSITY

PRENDERGAST, KEVIN H; *TIME-DEPENDENT, FORCE FREE FIELDS AND DISSIPATIONLESS NUMERICAL HYDRODYNAMICS (AST-7910643)*; 24 MONTHS $80,500

CORNELL UNIVERSITY

GOLD, THOMAS; *THEORETICAL STUDIES OF THE SOLAR SYSTEM (AST-7918574 A02)*; 12 MONTHS $91,500
DENOYER, L K; *OBSERVATIONAL STUDY OF SHOCKED MOLECULAR CLOUDS (AST-7910172)*; 19 MONTHS $29,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

SHAPIRO, STUART L; *THEORETICAL STUDIES IN ASTROPHYSICS (AST-7830709 A01)*; 12 MONTHS $182,900

DUDLEY OBSERVATORY

LINSCOTT, IVAN R; *INVESTIGATIONS OF GALACTIC AND EXTRAGALACTIC RADIO FREQUENCY BURSTS (AST-7911154 A01)*; 12 MONTHS $70,000

RENSSELAER POLYTECHNIC INSTITUTE

KUTNER, MARC L; *RADIO STUDIES OF INTERSTELLAR MOLECULES (AST-7915584)*; 24 MONTHS $85,700

STATE UNIVERSITY AT ALBANY

PETERSON, DEANE M; *PLATE MEASUREMENT AND REDUCTION LAB. GRANT-UPGRADE (AST-7909769)*; 12 MONTHS $9,000

UNIVERSITY OF ROCHESTER

VAN HORN, HUGH M. AND SAVEDOFF, M P; *STUDIES OF OBSERVED ATE STARS (AST-7908301 A01)*; 12 MONTHS $63,000
DAINTY, JOHN C; *STELLAR SPECKLE INTERFEROMETRY (AST-7916401)*; 24 MONTHS $10,000

OHIO

CASE WESTERN RESERVE UNIVERSITY

STEPHENSON, C B. AND PESCH, PETER; *RELOCATION AND OPERATION OF THE BURRELL SCHMIDT TYPE TELESCOPE OF THE WARNER AND SWASEY OBSERVATORY (AST-7728615 A02)*; 12 MONTHS $34,600
PESCH, PETER, BIDELMAN, W P, STEPHENSON, C B, AND SANDULEAK, NICHOLAS; *GALACTIC AND EXTRAGALACTIC RESEARCH WITH THE RELOCATED BURRELL SCHMIDT (AST-7911572)*; 12 MONTHS $140,000

OHIO STATE UNIVERSITY

WING, ROBERT F; *CARBON ISOTOPE RATIOS IN STARS (AST-8000459)*; 12 MONTHS $21,600
KEENAN, PHILIP C; *APPLICATION OF REVISED MK SPECTRAL TYPES TO GROUPS OF LATE-TYPE STARS (AST-8005477)*; 24 MONTHS $25,100

UNIVERSITY OF TOLEDO

BOPP, BERNARD W; *STUDY OF STELLAR SURFACE PHENOMENA (AST-7708450 A01)*; 24 MONTHS $52,800
MORRISON, NANCY D; *THE ATMOSPHERES OF VERY LUMINOUS STARS: OBSERVATIONS AND THEORY (AST-7827639 A01)*; 12 MONTHS $30,100

OREGON

UNIVERSITY OF OREGON - EUGENE

MOSELEY, JOHN T; *PHOTODISSOCIATION OF IONS OF ASTROPHYSICAL IMPORTANCE (AST-7918471)*; 12 MONTHS $50,000

PENNSYLVANIA

HAVERFORD COLLEGE

DESPAIN, KEITH H; *STUDIES OF LOW-MASS STARS: HELIUM IGNITION AND RELATED MATTERS (AST-7914170)*; 24 MONTHS $27,900

PENNSYLVANIA STATE UNIVERSITY

USHER, PETER D; *IDENTIFICATION AND PHOTOMETRY OF QUASI-STELLAR OBJECTS IN SELECTED HIGH-LATITUDE FIELDS (AST-7918499 A01)*; 12 MONTHS $31,100
WEEDMAN, DANIEL W; *OBSERVATIONS OF EMISSION-LINE GALAXIES AND QUASARS (AST-7901067 A01)*; 12 MONTHS $51,500
MATSUSHIMA, SATOSHI, AND WEGNER, GARY A; *THEORETICAL AND OBSERVATIONAL INVESTIGATIONS OF WHITE DWARF ATMOSPHERES (AST-8001577)*; 24 MONTHS $56,500

SWARTHMORE COLLEGE

LIPPINCOTT, SARAH L; *ASTROMETRIC STUDY OF NEARBY STARS (AST-7917937 A01)*; 12 MONTHS $69,000
HEINTZ, WULFF D; *OBSERVATIONS OF BINARY AND PROPER-MOTION STARS (AST-7908479 A01)*; 12 MONTHS $13,700

UNIVERSITY OF PENNSYLVANIA

KOCH, ROBERT H; *BINARY STARS IN THE MILKY WAY AND LARGE MAGELLANIC CLOUD (AST-7715167 A02)*; 12 MONTHS $39,800
LANDE, KENNETH; *LONG RANGE NEUTRINO DETECTOR (AST-7908479 A01)*; 12 MONTHS $99,000

UNIVERSITY OF PITTSBURGH

GATEWOOD, GEORGE D; *THE ALLEGHENY OBSERVATORY TRIGONOMETRIC PARALLAX PROGRAM (AST-7525401 A01)*; 12 MONTHS $56,000
WOLFE, ARTHUR M; *RADIO ASTRONOMICAL OBSERVATIONS OF TWENTY-ONE CENTIMETER ABSORPTION LINES IN QUASI-STELLAR OBJECTS (AST-7901740 A01)*; 12 MONTHS $30,000
GATEWOOD, GEORGE D; *THE CONSTRUCTION OF NEW ASTROMETRIC INSTRUMENTATION FOR THE DETECTION OF EXTRA SOLAR PLANETARY SYSTEMS (AST-7909191 A01)*; 4 MONTHS $15,000
GATEWOOD, GEORGE D; *THE CONSTRUCTION OF NEW ASTROMETRIC INSTRUMENTATION FOR THE DETECTION OF EXTRASOLAR PLANETARY SYSTEMS (AST-7909191 A01)*; 12 MONTHS $99,200

VILLANOVA UNIVERSITY

SION, EDWARD M. AND MCCOOK, GEORGE; *STATISTICS OF SPECTROSCOPICALLY IDENTIFIED WHITE DWARF STARS (AST-7911696 A01)*; 3 MONTHS $5,000

TEXAS

RICE UNIVERSITY

MICHEL, F CURTIS; *THEORETICAL STUDY OF PULSAR MAGNETOSPHERES (AST-7914479)*; 24 MONTHS $60,200

UNIV OF TEXAS AT AUSTIN-MCDONALD OBSERVATORY

SMITH, HARLAN J; *CONSTRUCTION AND INSTALLATION OF A REMOTELY CONTROLLED CASSEGRAIN SPECTROGRAPH SYSTEM FOR THE MCDONALD OBSERVATORY 2.7 METER TELESCOPE (AST-7914118 A01)*; 12 MONTHS $110,500

BARNES, THOMAS G. *OBSERVATIONS OF NONRADIAL PULSATIONS IN DELTA SCUTI VARIABLES* (AST 7940710) 12 MONTHS $34,700

BARNES, THOMAS G. *SIMULTANEOUS PHOTOMETRIC AND RADIAL VELOCITY OBSERVATIONS OF CLASSICAL CEPHEIDS. A COLLABORATION INVESTIGATION BY PURDUE UNIVERSITY AND THE UNIVERSITY OF TEXAS AT AUSTIN* (AST 7910839) 36 MONTHS $98,000

MULHOLLAND, J. D. *HIGH RESOLUTION OBSERVATION OF PLUTO/CHARON AND POSSIBLE MULTIPLE ASTEROID* (AST 7916449) 12 MONTHS $24,500

GRIBORAL, PAUL J. AND SMITH, HARLAN J. *THE IMPROVEMENT AND USE OF THE UNIVERSITY OF TEXAS ASTRONOMICAL ELECTRONOGRAPHIC CAMERA* (AST 7910301) 12 MONTHS $60,200

UNIVERSITY OF TEXAS AT AUSTIN

LAMBERT, DAVID L. AND TULL, ROBERT G. *A PANORAMIC DETECTOR FOR HIGH DISPERSION ASTRONOMICAL SPECTROPHOTOMETRY* (AST 7914383 A01) 12 MONTHS $36,500

WILIS, DEREK, AND WILLIS, BEVERLEY J. *SPECTROSCOPIC OBSERVATIONS OF QUASI STELLAR OBJECTS* (AST 7901192 A01) 12 MONTHS $63,700

NATHER, R E. AND ROBINSON, EDWARD L. *RAPID OPTICAL VARIATIONS FROM COMPACT STARS* (AST 7908420 A01) 12 MONTHS $81,400

EDMONDS, FRANK N. *A BI DIMENSIONAL CENTER OF THE DISK ANALYSIS OF RESIDUAL INTENSITY FLUCTUATIONS IN A SOLAR SPECTRUM LINE* (AST 7909511) 12 MONTHS $13,600

DE VAUCOULEURS , G H. *PHOTOMETRY, SPECTROSCOPY AND INTERFEROMETRY OF IRREGULAR GALAXIES* (AST 7904035) 12 MONTHS $73,000

DUNCOMBE, RAYNOR L. *A STUDY OF THE USE OF ASTEROID OBSERVATIONS TO IMPROVE THE FUNDAMENTAL REFERENCE STAR SYSTEM* (AST 7916070) 12 MONTHS $30,300

VANDEN BOUT, PAUL A. *MILLIMETER WAVELENGTH SPECTROSCOPY OF GALACTIC MOLECULAR CLOUDS* (AST 7930995) 12 MONTHS $250,900

LAMBERT, DAVID L. *STELLAR SPECTROSCOPY AND NUCLEOSYNTHESIS* (AST 7910916) 12 MONTHS $64,900

DEWITT, BRYCE S. AND SCIAMA, DENNIS W. *BASIC PROCESSES IN ASTROPHYSICS* (AST 7911166) 24 MONTHS $76,600

SCALO, JOHN M. *POSTDOCTORAL RESEARCH IN THEORETICAL ASTROPHYSICS* (AST 7911717) 12 MONTHS $27,600

DAVIS, JOHN H. VANDEN BOUT, PAUL A. AND VOGEL, WOLFHARD J. *MILLIMETER WAVELENGTH CRYOGENIC RECEIVERS* (AST 7910911) 12 MONTHS $79,500

NATHER, R E. AND BENEDICT, G F. *AN ASTRONOMICAL DATA REDUCTION AND ANALYSIS NETWORK* (AST 8006110) 24 MONTHS $140,000

VIRGINIA

COLLEGE OF WILLIAM AND MARY

HERBST, ERIC. *NON EQUILIBRIUM CHEMICAL EFFECTS IN INTERSTELLAR SHOCK MODELS* (AST 7906119 A01) $7,000

UNIVERSITY OF VIRGINIA

ROBERTS, WILLIAM W. *NORMAL SPIRALS, BARRED SPIRALS, AND ACTIVE GALAXIES: LARGE SCALE GAS DYNAMICS IN GALAXIES* (AST 7909935) 12 MONTHS $42,900

JOHNSTON, ROBERT E. *INDUSTRY UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: EROSION OF CONDENSED GASES BY FAST IONS: PHYSICAL MECHANISM AND ASTROPHYSICAL IMPLICATIONS* (AST 7913500) 12 MONTHS $11,500

FREDRICK, LAURENCE W. AND IANNA, PHILIP A. *PARALLAXES AND PROPER MOTIONS OF SELECTED STARS* (AST 7911342) 12 MONTHS $63,450

VIRGINIA POLYTECHNIC INSTITUTE

BRODERICK, JOHN J. DENNISON, BRIAN K. AND O'DELL, STEPHEN L. *LOW FREQUENCY VARIABILITY IN EXTRAGALACTIC RADIO SOURCES* (AST 7915463) 12 MONTHS $59,300

WASHINGTON

UNIVERSITY OF WASHINGTON

BOHM, KARL HEIN. *SPECTROSCOPY AND THEORY OF HERBIG HARO OBJECTS AND OF ATMOSPHERES OF WHITE DWARF STARS* (AST 7930647 A01) 12 MONTHS $35,000

HOOKE, PAUL W. *STAR AND CLUSTER EVOLUTION IN THE MAGELLANIC CLOUDS* (AST 7911145) 12 MONTHS $74,000

WALLERSTEIN, GEORGE. *THE CHEMICAL COMPOSITION OF LATE TYPE STARS* (AST 7911055) 12 MONTHS $65,300

BOYNTON, PAUL E. *HIGH ENERGY ASTROPHYSICS* (AST 8001671) 24 MONTHS $97,000

WASHINGTON STATE UNIVERSITY

LUTZ, THOMAS E. *CALIBRATION OF STELLAR LUMINOSITIES FROM TRIGONOMETRIC PARALLAXES* (AST 8001121) 12 MONTHS $13,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

MATHIS, JOHN S. *THEORETICAL STUDIES OF GASEOUS NEBULAE* (AST 7900519) 24 MONTHS $68,500

SOMERVILLE, FRANK, AND BORSLER, FRED C. *INVESTIGATION OF LOW INTENSITY EMISSION LINES FROM THE INTERSTELLAR MEDIUM* (AST 7909419 A01) 12 MONTHS $94,000

CAMPBELL, JOSEPH F. *STUDIES OF EXPANDING ATMOSPHERES OF LUMINOUS STARS* (AST 7911614) 36 MONTHS $81,700

WYOMING

UNIVERSITY OF WYOMING

GEDDE, ROBERT D. AND HACKWELL, JOHN A. *IMPROVED IMPROVED ARRAY SPECTROMETER SYSTEMS AT THE UNIVERSITY OF WYOMING* (AST 7905111 A01) 12 MONTHS $86,400

GRADDALEDI, GARY L. *TO ACQUIRE AN IMAGE PROCESSING SYSTEM FOR THE WYOMING INFRARED OBSERVATORY* (AST 7910750) 12 MONTHS $106,700

CLIMATIC DYNAMICS

ALASKA

UNIVERSITY OF ALASKA-FAIRBANKS-GEOPHYSICAL INSTITUTE

SHAW, GLENN E. *THE MAGNITUDE AND VARIABILITY OF SOLAR SPECTRAL IRRADIANCE* (ATM 7911595 A01) 12 MONTHS $20,700

WENDLER, GERD, AND EATON, FRANK D. *ON DESERTIFICATION IN THE NORTHERN SAHARA* (ATM 7715790) 12 MONTHS $60,600

ARIZONA

UNIVERSITY OF ARIZONA

FRITTS, HAROLD C. *CLIMATIC RECONSTRUCTION USING NORTHERN HEMISPHERE TREE RINGS* (ATM 7710210 A01) 12 MONTHS $240,000

SELLERS, WILLIAM D. *CLIMATIC RESEARCH* (ATM 7902751 A01) 12 MONTHS $42,000

MARIGRAF, VERA. *PALEOCLIMATIC RECONSTRUCTION OF THE LAST 15,000 YEARS OF TEMPERATE AND SUBTROPICAL REGIONS IN ARGENTINA AND NORTH AMERICA* (ATM 7910772) 12 MONTHS $60,470

DAMON, PAUL E. DONAHUE, DOUGLAS J. FERGUSON, C W. LERMAN, JUAN C. AND LONG, AUSTIN. *RADIOCARBON AND CLIMATE* (ATM 7911519) 12 MONTHS $40,000

STOCKTON, CHARLES W. *PROJECTED EFFECTS OF CLIMATIC VARIATION UPON WATER AVAILABILITY IN WESTERN UNITED STATES* (ATM 7918381) 12 MONTHS $75,000

ARKANSAS

ARKANSAS ARCHEOLOGICAL SURVEY

STABLE, DAVID W. AND NEHR, JOHN C. *THE DEVELOPMENT OF MODERN TREE RING CHRONOLOGIES IN THE MIDWEST ARKANSAS, NORTH TEXAS, OKLAHOMA, KANSAS, AND MISSOURI* (ATM 8000394) 12 MONTHS $36,500

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

EPSTEIN, SAMUEL. *CLIMATIC IMPLICATIONS OF THE D/H AND 18O/16O IN TREE RINGS* (ATM 7910990 A02) 12 MONTHS $131,000

COMPASS SYSTEMS INC

BAUER, ROGER A. AND ROBINSON, MARGARET R. *CONTINUATION OF ANALYSIS OF OCEANOGRAPHIC DATA OF THE SURFACE LAYER (0-150 M) IN THE SOUTHERN HEMISPHERE AND PREPARATION OF THE RESULTS FOR PUBLICATION IN AN ATLAS* (ATM 7910163) 12 MONTHS $141,900

NAVAL POSTGRADUATE SCHOOL

LAU, KA MING W. AND CHANG, CHIH PEI. *LARGE SCALE ATMOSPHERE OCEAN COUPLING* (ATM 7910197) 12 MONTHS $38,000

CHANG, CHIH PEI AND WILLIAMS, ROGER T. *TROPICAL AND MONSOON STUDIES* (ATM 8011133) 12 MONTHS $74,700

SAN DIEGO STATE UNIVERSITY

ANGIONE, RONALD J. *MODERN AND HISTORICAL ANALYSES OF THE SOLAR CONSTANT* (ATM 7730397 A01) 12 MONTHS $10,000

UNIVERSITY OF CALIFORNIA, BERKELEY

BYRNE, ROGER. *LATE QUATERNARY CLIMATIC CHANGE IN THE GULF OF CALIFORNIA: AN INVESTIGATION OF TERRESTRIAL AND MARINE EVIDENCE CONTAINED IN VARVED SEDIMENTS FROM THE GUAYMAS SLOPE* (ATM 7910971) 12 MONTHS $45,200

UNIVERSITY OF CALIFORNIA, LOS ANGELES

YANAI, MICHIO. *DIAGNOSIS OF TROPICAL MOTION SYSTEMS* (ATM 7551191 A01) 12 MONTHS $91,400

SUAREZ, MAX J. *CLIMATE OF A SIMPLIFIED PRIMITIVE EQUATION ATMOSPHERIC MODEL* (ATM 7731116 A01) 12 MONTHS $58,000

ARAKAWA, AKIO, AND SUAREZ, MAX J. *NUMERICAL MODELING OF THE GLOBAL ATMOSPHERE* (ATM 7901617 A01) 12 MONTHS $108,100

DENIRO, MICHAEL J. *ANALYSIS OF BIOLOGICAL PROCESSES WHICH AFFECT CLIMATIC RECONSTRUCTION BASED ON STABLE ISOTOPE RATIOS OF TREE RINGS* (ATM 7916101) 12 MONTHS $65,500

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

BARNETT, TIM P. *STUDY OF PREDICTABILITY AND VARIABILITY OF THE NORTHERN HEMISPHERE CLIMATE* (ATM 7916100) 12 MONTHS $199,700

KEELING, CHARLES D. *A STUDY OF THE ABUNDANCE OF CARBON DIOXIDE IN THE ATMOSPHERE AND ITS EXCHANGE WITH THE OCEANS* (ATM 7910040) 12 MONTHS $80,300

REVELLE, ROGER; *SUPPORT FOR A SCIENTIFIC SECRETARY FOR THE COMMITTEE ON CLIMATE CHANGE AND THE OCEAN (CCCO) OF THE SCIENTIFIC COMMITTEE ON OCEAN RESEARCH (SCOR) (OCE-7925973*)*; 12 MONTHS $4,800

UNIVERSITY OF CALIFORNIA, SAN DIEGO

LARUE, JOHN C; *DISTRIBUTION OF THE FLUXES OF MOMENTUM AND SENSIBLE AND LATENT HEAT DURING MONEX, PHASE I (ATM-7822382 A01)*; 12 MONTHS $39,800

SUESS, HANS E; *FURTHER STUDIES OF THE RADIOCARBON RECORD IN TREE-RINGS OF THE LAST 8,000 YEARS (ATM-7919866*)*; 12 MONTHS $55,800

SOUTAR, ANDREW; *LATE QUATERNARY CLIMATIC CHANGE IN THE GULF OF CALIFORNIA: AN INVESTIGATION OF TERRESTRIAL AND MARINE EVIDENCE CONTAINED IN VARVED SEDIMENTS FROM THE GUAYMAS SLOPE (ATM-7919872)*; 12 MONTHS $37,500

COLORADO

COLORADO STATE UNIVERSITY

VONDER HAAR, THOMAS H; *RESEARCH METHODS TO EXTRACT CLIMATE DIAGNOSTIC RECORDS FROM GEOSYNCHRONOUS SATELLITE DATA (ATM-7807148 A01)*; 12 MONTHS $54,150

REITER, ELMAR R; *CAUSES AND EFFECTS OF ATMOSPHERIC INTERANNUAL VARIABILITY (ATM-7817835 A01)*; 12 MONTHS $109,200

VONDER HAAR, THOMAS H, AND SMITH, ERIC A; *SATELLITE MEASUREMENTS AND ANALYSIS OF THE RADIATION BUDGET OVER MONEX (ATM-7820375 A01)*; 12 MONTHS $72,500

STEVENS, DUANE E; *ANALYSIS AND MODELING OF CUMULUS TRANSPORTS OF DYNAMICAL PARAMETERS IN TROPICAL LARGE-SCALE DISTURBANCES (ATM-7826764 A01)*; 12 MONTHS $41,700

MCKEE, THOMAS B; *RADIATIVE EFFECT OF FINITE CLOUDS IN FIELDS OF CLOUDS (ATM-7827556 A01)*; 12 MONTHS $26,600

BRIER, GLENN W, AND SIDDIQUI, MOHAMMED M; *SOME STATISTICAL AND PHYSICAL PROBLEMS IN STUDYING FEEDBACK PROCESSES IN THE ATMOSPHERE-OCEAN-EARTH SYSTEM (ATM-7911465)*; 12 MONTHS $30,360

GRAY, WILLIAM M; *TROPICAL WEATHER SYSTEM STUDIES IN SUPPORT OF GATE, FGGE, AND HURRICANE PROJECT ACTIVITIES (ATM-7923591*)*; 12 MONTHS $60,000

JOHNSON, RICHARD H; *INVESTIGATION OF CUMULUS TRANSPORTS WITHIN GATE AND WINTER MONEX TROPICAL DISTURBANCES (ATM-8007462*)*; 8 MONTHS $25,200

SCHUBERT, WAYNE H; *THE DYNAMICS OF THE TROPICAL TROPOSPHERE (ATM-8009799)*; 12 MONTHS $87,700

COX, STEPHEN K; *MONEX BROAD SCALE RADIATION BUDGET COMPONENTS (ATM-8010691)*; 12 MONTHS $141,600

JOHNSON, RICHARD H; *TROPICAL CONVECTION AND THE ATMOSPHERIC BOUNDARY LAYER (ATM-8015347)*; 12 MONTHS $57,300

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

BRETHERTON, FRANCIS P; *CONTRACT FOR MANAGEMENT, OPERATIONS AND MAINTENANCE OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (ATM-7723757 A60*)* $293,330

CONNECTICUT

CENTER FOR THE ENVIRONMENT AND MAN INC

JACOBS, CLIFFORD A, AND PANDOLFO, JOSEPH P; *NUMERICAL EXPERIMENTS RELEVANT TO MONEX-INDEX WITH A REGIONAL THREE-DIMENSIONAL AIR-LAND-SEA INTERACTION MODEL (ATM-7808990 A01)*; 12 MONTHS $96,300

NORTHROP, G M; *IMPACT OF CLIMATIC FLUCTUATIONS ON REGIONAL RESOURCES AND SOCIAL AND ECONOMIC CHARACTERISTICS OF THE NORTHEAST UNITED STATES; 1980-2020 (ATM-7819893 A01)*; 12 MONTHS $69,850

PANDOLFO, JOSEPH P, AND BROWN, PHILIP S; *USE OF GATE DATA IN NESTED-GRID, PRIMITIVE EQUATION MODELS (ATM-7824273 A01)*; 12 MONTHS $125,600

JACOBS, CLIFFORD A; *NUMERICAL EXPERIMENTS WITH ALTERNATIVE FORMULATION OF OCEANIC VERTICAL EDDY EXCHANGE COEFFICIENTS USING GATE DATA (ATM-7825303 A01)*; 12 MONTHS $84,600

ROBINSON, GEORGE D; *CONTINUED INVESTIGATION OF ATMOSPHERIC KINETIC ENERGY SPECTRA IN THE SCALE RANGE 500 TO 5000KM (ATM-7908563 A01)*; 12 MONTHS $39,600

SUTERA, ALFONSO; *STRUCTURAL ANALYSIS OF SIMPLE NON-LINEAR STOCHASTICALLY PERTURBED CLIMATE MODELS (ATM-7918875*)*; 12 MONTHS $44,400

YALE UNIVERSITY

SALTZMAN, BARRY; *MODELLING THE TIME-DEPENDENT EVOLUTION OF CLIMATE (ATM-7925013)*; 12 MONTHS $54,800

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF SCIENCES

PERRY, JOHN S; *SUPPORT FOR THE U.S. COMMITTEE FOR THE GLOBAL ATMOSPHERIC RESEARCH PROGRAM (USC-GARP) (ATM-7903617 A01)*; 12 MONTHS $60,267

FLORIDA

FLORIDA STATE UNIVERSITY

KRISHNAMURTI, T N; *NUMERICAL WEATHER PREDICTION (ATM-7819363 A01)*; 12 MONTHS $127,600

BARCILON, ALBERT I; *CLIMATE MODELING WITH DYNAMIC FLUX PARAMETERIZATION (ATM-7823007 A01)*; 12 MONTHS $34,800

O'BRIEN, JAMES J; *EQUATORIAL OCEAN-CLIMATE AIR-SEA INTERACTIONS (ATM-7920485)*; 12 MONTHS $50,000

NOVA UNIVERSITY

SIMMONS, WILLIAM *FGGE OCEANOGRAPHIC PROGRAMME SCIENTIFIC OFFICER (ATM-7707506 A02)*; $3,400

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

PROSPERO, JOSEPH M; *AN AEROSOL PROGRAM IN THE GLOBAL WEATHER EXPERIMENT (GWEAP) (ATM-7812246 A03)*; $14,000

SCHOTT, FRIEDRICH; *SOMALI CURRENT FIELDWORK 1979 (ATM-7818174 A01)*; 12 MONTHS $153,300

SCHOTT, FRIEDRICH; *SOMALI CURRENT ARRAY DURING FGGE 1979 (ATM-7824585 A01)*; 12 MONTHS $78,200

GELLER, MARVIN A; *ATMOSPHERIC WAVES AND CLIMATE VARIABILITY (ATM-7908352 A02)*; 4 MONTHS $1,400

GEISLER, JOHN E; *A LINEAR MODEL STUDY OF THE SUMMER MONSOON (ATM-7915225)*; 12 MONTHS $59,600

GEISLER, JOHN E; *A LINEAR MODEL STUDY OF THE SUMMER MONSOON (ATM-7915225 A01)*; 12 MONTHS $62,800

DUING, WALTER O; *COMPLETION OF THE INTERNATIONAL GATE ATLAS (ATM-8000052)*; 7 MONTHS $5,700

PROSPERO, JOSEPH M; *AN AEROSOL PROGRAM IN THE GLOBAL WEATHER EXPERIMENT (GWEAP) - DATA ANALYSIS (ATM-8016127)*; 12 MONTHS $97,900

UNIVERSITY OF MIAMI

EMILIANI, CESARE, AND STIPP, JERRY J; *HOLOCENE PALEOCLIMATOLOGY (ATM-7826399 A01)*; 12 MONTHS $63,620

ESTOQUE, MARIANO A; *SYNOPTIC DISTURBANCES OVER THE INDONESIAN MARITIME CONTINENT (ATM-7916472)*; 12 MONTHS $40,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

PATTERSON, EDWARD M, GRAMS, GERALD W, AND POLLARD, C O; *AIRCRAFT MEASUREMENTS OF AEROSOL OPTICAL PROPERTIES DURING THE MONEX PROGRAM (ATM-7820149 A01)*; 12 MONTHS $34,900

HAWAII

UNIVERSITY OF HAWAII-MANOA

MURAKAMI, TAKIO; *SYNOPTIC AND DYNAMIC STUDIES ON MONSOON CIRCULATIONS IN THE TROPICS (ATM-8001627)*; 12 MONTHS $114,100

ILLINOIS

NORTHWESTERN UNIVERSITY

BIRCHFIELD, G E, AND WEERTMAN, JOHANNES; *A NUMERICAL CLIMATE MODEL STUDY INCLUDING THE PHYSICS OF CONTINENTAL ICE SHEETS AND THE DEEP OCEAN (ATM-7813961 A01)*; 12 MONTHS $66,730

UNIVERSITY OF CHICAGO

KUO, HSIAO L; *CLIMATE AND THERMAL CIRCULATION (ATM-7922048*)*; 12 MONTHS $15,000

UNIVERSITY OF ILLINOIS AT URBANA

SASAMORI, TAKASHI; *AN INVESTIGATION OF THE STATIONARY TROUGH OVER THE U.S. CONTINENT DURING WINTER (ATM-7809159 A01*)*; 12 MONTHS $23,500

MAK, MAN-KIN; *DYNAMICS OF MONSOONAL CIRCULATION (ATM-7812314 A01)*; 12 MONTHS $72,800

TRENBERTH, KEVIN E; *INTERANNUAL VARIABILITY OF THE ATMOSPHERIC CIRCULATION IN THE SOUTHERN HEMISPHERE (ATM-7916485)*; 12 MONTHS $45,400

WALSH, JOHN E; *INTERANNUAL VARIABILITY OF CROP-RELATED METEOROLOGICAL DATA (ATM-7920014)*; 18 MONTHS $28,100

OGURA, Y., AND SOONG, SU-TZAI; *INTERACTION BETWEEN CUMULUS AND THE LARGE-SCALE FIELDS IN TROPICS (ATM-8013719)*; 12 MONTHS $110,400

INDIANA

PURDUE UNIVERSITY

VINCENT, DAYTON G; *CIRCULATION FEATURES DURING GATE: LARGE-SCALE MEAN STATE FOR PHASES I, II AND III (ATM-7812590 A01)*; 12 MONTHS $45,800

AGEE, ERNEST M; *MICROSCALE-MESOSCALE CELLULAR CONVECTION (ATM-7927149)*; 12 MONTHS $66,700

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

CHEN, T-C; *NONLINEAR CASCADE PROCESSES IN THE BAROCLINIC AND BAROTROPIC FLOW OF THE ATMOSPHERE (ATM-7924568)*; 12 MONTHS $31,600

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

COLEMAN, JAMES M, AND HSU, S A; *MEASUREMENT OF THE THERMODYNAMICS OF THE SOMALI JET BY HIGH-RESOLUTION RADIOSOUNDINGS (ATM-7813398 A01)*; 12 MONTHS $14,900

TULANE UNIVERSITY

WATTS, ROBERT G; *THE ANALYSIS OF SIMPLE CLIMATE MODELS USING CONTROL SYSTEM THEORY (ATM-7916332)*; 12 MONTHS $41,600

MARYLAND

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION-NATIONAL ENVIRONMENTAL SATELLITE SERVICE

LUDWIG, GEORGE H; *SUPPORT FOR THE TIROS-N SATELLITE DATA COLLECTION SYSTEM (ATM-8009813*)*; 12 MONTHS $35,000

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

FLEMING, REX J; *INTERAGENCY TRANSFER - OPERATE A THIRD GEOSTATIONARY SATELLITE DURING FGGE AND MONEX (ATM-7806941 A02)*; 12 MONTHS $159,000

FLEMING, REX J; *JOINT ONR, NSF, NOAA SUPPORT OF PROPOSAL 'ARCTIC BASIN BUOY PROGRAM' (ATM-8007343*)*; 12 MONTHS $55,000

UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE

ROBOCK, ALAN; *CLIMATE CHANGE CAUSED BY NATURAL VARIATION AND VOLCANIC DUST AS SIMULATED BY A SEASONAL MODEL (ATM-7918215)*; 12 MONTHS $39,788

UNIVERSITY OF MARYLAND, COLLEGE PARK

BAER, FERDINAND; *STUDIES OF ATMOSPHERIC FLOW AND ITS PREDICTION (ATM-7817429 A02)*; 12 MONTHS $39,600

ELLINGSON, ROBERT G; *AN AIRBORNE STUDY OF ATMOSPHERIC RADIATIVE HEATING DURING THE ARABIAN SEA COMPONENT OF MONEX (ATM-7821872 A01)*; 12 MONTHS $59,300

LANDSBERG, HELMUT E; *FURTHER ANALYSIS OF LONG CLIMATIC SERIES (ATM-7920406)*; 14 MONTHS $47,635

MASSACHUSETTS

CLARK UNIVERSITY

WARRICK, RICHARD A; *THE EFFECTS OF CLIMATE FLUCTUATIONS ON HUMAN POPULATIONS (ATM-8006635)*; 12 MONTHS $58,175

ENVIRONMENTAL RESEARCH & TECHNOLOGY INC

ROSEN, RICHARD D; *THE BEHAVIOR OF WATER VAPOR IN THE GENERAL CIRCULATION AND ITS IMPLICATIONS FOR HYDROLOGY AND CLIMATE (ATM-7716348 A02*)*; 12 MONTHS $105,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

CHARNEY, JULE G; *SUPPORT OF RESEARCH ON THE DYNAMICS OF LARGE-SCALE ATMOSPHERIC AND OCEANIC PROCESSES (ATM-7620070 A03*)*; 12 MONTHS $313,900

CHARNEY, JULE G; *DYNAMICS OF LARGE-SCALE ATMOSPHERIC AND OCEANIC PROCESSES (ATM-7620070 A04)*; 12 MONTHS $328,300

EAGLESON, PETER S; *A DYNAMIC LAND SURFACE BOUNDARY CONDITION FOR CLIMATE MODELS (ATM-7812327 A01)*; 12 MONTHS $76,450

SANDERS, FREDERICK; *RESEARCH ON 'THE STRUCTURE AND DYNAMICS OF MONSOON DISTURBANCES' (ATM-7823799 A01)*; 12 MONTHS $84,450

LORENZ, EDWARD N; *STUDY OF THE MATHEMATICAL BASIS OF CLIMATE (ATM-7910389)*; 12 MONTHS $93,200

NEWELL, REGINALD E; *DIAGNOSTIC AND REAL TIME STUDIES OF CLIMATIC FLUCTUATIONS (ATM-7918016)*; 12 MONTHS $155,775

BURPEE, ROBERT W; *COMPOSITE STUDIES OF SYNOPTIC-SCALE WAVES IN WESTERN AFRICA AND THE CARIBBEAN DURING GATE (ATM-8017245)*; 7 MONTHS $30,400

WOODS HOLE OCEANOGRAPHIC INSTITUTION

STOMMEL, HENRY M; *RESEARCH IN OCEAN PHYSICS (OCE-7818460 A01*)*; 12 MONTHS $50,000

LUYTEN, JAMES R; *OBSERVATIONS OF SUBSURFACE EQUATORIAL JETS IN THE INDIAN OCEAN (ATM-7821491 A01)*; 12 MONTHS $72,222

LUYTEN, JAMES R; *OBSERVATIONS OF SUBSURFACE EQUATORIAL JETS IN THE WESTERN INDIAN OCEAN (ATM-7821491 A02)*; $76,900

MICHIGAN

UNIVERSITY OF MICHIGAN

FARRAND, WILLIAM R; *PALEOCLIMATOLOGY OF THE NORTHERN ALGERIAN HIGH PLAINS (ATM-7927266)*; 15 MONTHS $60,800

MINNESOTA

UNIVERSITY OF MINNESOTA

WRIGHT, HERBERT E, AND CUSHING, EDWARD J; *COHMAP (CLIMATES OF THE HOLOCENE: MAPPING BASED ON POLLEN DATA) (ATM-7916580 A01)*; 12 MONTHS $64,140

MISSOURI

ST LOUIS UNIVERSITY

RAO, GANDIKOTA V; *A STUDY OF THE METEOROLOGY OVER INDIAN OCEAN AND ARABIAN SEA DURING THE SOUTH WEST MONSOON SEASON (ATM-7820388 A01)*; 12 MONTHS $40,700

UNIVERSITY OF MISSOURI, COLUMBIA

KUNG, ERNEST C; *STUDY OF THE ATMOSPHERIC ENERGETICS (ATM-7724558 A02)*; 12 MONTHS $154,900

NEW HAMPSHIRE

INDIVIDUAL AWARD

KRAICHNAN, ROBERT H; *TURBULENCE DYNAMICS AND PREDICTABILITY (ATM-7809212 A03)*; $15,600

KRAICHNAN, ROBERT H; *TURBULENCE DYNAMICS AND PREDICTABILITY (ATM-8008893)*; 11 MONTHS $57,600

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

MAYEWSKI, PAUL A; *HIMALAYAN PALEOCLIMATE PROGRAM (HIPP) - A GLACIOLOGICAL APPROACH (INT-8003175*)*; 12 MONTHS $30,042

NEW JERSEY

PRINCETON UNIVERSITY

FELS, STEPHEN B, AND GORDON, C T; *RESEARCH IN LARGE SCALE ATMOSPHERIC CIRCULATION (ATM-7727262 A02*)*; 12 MONTHS $51,300

RUTGERS UNIVERSITY-BUSCH CAMPUS

PESKIN, RICHARD L; *TURBULENCE AND TURBULENT DISPERSION FOR A TWO-DIMENSIONAL SIMULATED BAROCLINIC ATMOSPHERIC MODEL (ATM-7901674 A01)*; 12 MONTHS $63,700

NEW YORK

BROOKHAVEN NATIONAL LABORATORY

SETHURAMAN, S; *COASTAL METEOROLOGICAL EXPERIMENTS IN THE BAY OF BENGAL AREA DURING MONEX (ATM-7822383 A01)*; 12 MONTHS $24,200

COLUMBIA UNIVERSITY

DURAZZI, JOSEPH T, AND MC INTYRE, ANDREW; *OXYGEN ISOTOPIC PATTERNS IN THE NORTH ATLANTIC OCEAN: PRESENT CONFIGURATIONS AND PALEOCLIMATIC APPLICATIONS (ATM-7719246 A01)*; 12 MONTHS $51,185

JACOBY, GORDON C, COOK, EDWARD R, AND BROECKER, WALLACE S; *USE OF X-RAY DENSITOMETRY FOR RECONSTRUCTING PAST CLIMATES FROM TREE-RING ANALYSIS (ATM-7824152 A01)*; 12 MONTHS $66,400

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

RUDDIMAN, WILLIAM F; *CLIMATE, LONG-RANGE INVESTIGATION, MAPPING AND PREDICTION (CLIMAP): GLOBAL PALEO-OCEANOGRAPHIC STUDIES OF LATE QUATERNARY OCEAN CIRCULATION AND CLIMATE (OCE-7722893 A02*)*; 12 MONTHS $50,000

MC INTYRE, ANDREW, RUDDIMAN, WILLIAM F. AND DURAZZI, JOSEPH T; *PHENOMENON OF RAPID GLACIAL GROWTH: DOCUMENTATION, THEORY, TESTING AND SYNTHESIS USING THE OCEANIC RECORD (OCE-7818261 A01*)*; 12 MONTHS $63,503

HAYS, JAMES D; *MAPPING SPECTRAL VARIATIONS IN GLOBAL CLIMATE OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR--PROJECT SPECMAP (ATM-7825939 A01*)*; 12 MONTHS $85,400

HAYS, JAMES D; *MAPPING SPECTRAL VARIATIONS IN GLOBAL CLIMATE OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR--PROJECT SPECMAP (ATM-7825939 A02)*; $2,396

BROECKER, WALLACE S, JACOBY, GORDON C, AND LAWRENCE, JAMES R; *RECOVERY AND INTERPRETATION OF PALEOCLIMATIC INFORMATION IN STABLE ISOTOPES OF NATURAL WATERS USING TREE-RING CELLULOSE (ATM-7918920)*; 12 MONTHS $91,900

JACOBY, GORDON C. AND COOK, EDWARD R; *DERIVATION OF CLIMATIC INFORMATION FROM TREE-RING ANALYSIS (ATM-7919223)*; 12 MONTHS $104,350

KATZ, ELI J; *ANNUAL CYCLE IN THE WESTERN EQUATORIAL ATLANTIC (OCE-7922532*)*; 24 MONTHS $86,350

KUKLA, GEORGE J, AND UNTERSTEINER, NORBERT; *CHANGES OF SNOW AND ICE FIELDS IN TIME (ATM-8001470*)*; 12 MONTHS $131,400

NEW YORK UNIVERSITY

HEUSSER, CALVIN J; *QUATERNARY ENVIRONMENTS AND PLANT GEOGRAPHY OF SOUTHERN CHILE (ATM-7817048 A01*)*; 12 MONTHS $40,000

STATE UNIVERSITY AT ALBANY

LOESCH, ARTHUR Z, AND BARCILON, ALBERT I; *CLIMATE MODELLING WITH DYNAMIC HEAT FLUX PARAMETERIZATION (ATM-7824098 A01)*; 12 MONTHS $27,100

NORTH DAKOTA

NORTH DAKOTA STATE UNIVERSITY MAIN CAMPUS

ASHWORTH, ALLAN C; *LATE GLACIAL TEMPERATURE TRENDS IN SOUTHERN CHILE DEDUCED FROM FOSSIL COLEOPTERA (BEETLE) ASSEMBLAGES (ATM-7820372 A01)*; 12 MONTHS $28,600

OHIO

OHIO STATE UNIVERSITY

THOMPSON, LONNIE G; *PALEOCLIMATE ICE CORE RECORDS FROM THE TROPICAL QUELCCAYA ICE CAP (ATM-7821609 A01)*; 12 MONTHS $29,850

ROGERS, JEFFERY C, AND VAN LOON, HARRY; *THE INTERANNUAL VARIATION OF CERTAIN FEATURES OF THE GENERAL CIRCULATION OVER THE SOUTHERN HEMISPHERE (ATM-8006330)*; 24 MONTHS $56,800

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

SASAKI, YOSHI K; *VARIATIONAL METHODS IN NUMERICAL WEATHER PREDICTION (ATM-7824892 A01)*; 18 MONTHS $45,600

CARR, FREDERICK H; *SYNOPTIC AND NUMERICAL STUDIES OF MID-TROPOSPHERIC CYCLONES (ATM-7923918)*; 12 MONTHS $22,400

CARR, FREDERICK H; *SYNOPTIC AND NUMERICAL STUDIES OF MID-TROPOSPHERIC CYCLONES (ATM-7923918 A01)*; 18 MONTHS $24,600

OREGON

OREGON STATE UNIVERSITY

DEARDORFF, JAMES W; *INVESTIGATION OF STRATOCUMULUS TURBULENCE AND ENTRAINMENT FROM THREE-DIMENSIONAL NUMERICAL SIMULATIONS (ATM-7724559 A02)*; 6 MONTHS $9,200

ESBENSEN, STEVEN; *DYNAMICAL INTERACTION OF CLOUDS AND TROPICAL WAVES (ATM-7818805 A01)*; $4,300

QUINN, WILLIAM H, AND ENFIELD, DAVID B; *INVESTIGATION, MONITORING AND PREDICTION OF LARGE-SCALE CLIMATIC FLUCTUATIONS OVER THE INDO-PACIFIC REGION (ATM-7820419 A01)*; 12 MONTHS $80,000

MAHRT, LARRY J, AND DEARDORFF, JAMES W; *FLUXES IN THE CLOUD TOPPED, AMTEX, MIXED LAYER (ATM-7910042)*; 12 MONTHS $26,000

SCHRADER, HANS J; *LAMINATED SEDIMENTS OF THE CENTRAL GULF OF CALIFORNIA: A STUDY OF CLIMATIC AND SEDIMENTOLOGIC INFORMATION PRESERVED OVER THE LAST 150,000 YEARS (ATM-7919458*)*; 12 MONTHS $52,440

GATES, W L, ESBENSEN, STEVEN, HAN, YOUNG J, SCHLESINGER, MICHAEL E, AND KIM, JEONG-WOO; *RESEARCH ON THE DYNAMICS OF CLIMATE (ATM-8001702*)*; 6 MONTHS $83,000

MURPHY, ALLAN H, AND KATZ, RICHARD W; *DYNAMIC DECISION-MAKING MODELS FOR ASSESSING THE VALUE OF WEATHER AND CLIMATE INFORMATION (ATM-8004680*)*; 12 MONTHS $47,400

PENNSYLVANIA

PENNSYLVANIA STATE UNIVERSITY

ALBRECHT, BRUCE A; *THE THERMODYNAMIC STRUCTURE OF THE TRADES (ATM-8009307)*; 12 MONTHS $39,400

CARLSON, TOBY N, AND ANTHES, RICHARD A; *DOWNSTREAM EFFECTS OF DESERT CIRCULATIONS: A NUMERICAL STUDY OF THE SAHARAN AIR LAYER, PART I (ATM-8011931)*; 12 MONTHS $42,300

RHODE ISLAND

BROWN UNIVERSITY

IMBRIE, JOHN, AND PRELL, WARREN L; *MAPPING SPECTRAL VARIATIONS IN GLOBAL CLIMATE OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR (ATM-7825629 A01*)*; 12 MONTHS $142,000

IMBRIE, JOHN, AND PRELL, WARREN L; *MAPPING SPECTRAL VARIATIONS IN GLOBAL CLIMATE OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR (ATM-7825629 A02)*; $3,570

WEBB III, THOMPSON; *COHMAP (CLIMATE OF THE HOLOCENE: MAPPING BASED ON POLLEN DATA) (ATM-7916234 A01)*; 12 MONTHS $113,000

PRELL, WARREN L; *HISTORY OF THE SOUTHWEST MONSOON AS RECORDED BY ARABIAN SEA UPWELLING (ATM-7924013)*; 12 MONTHS $51,000

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

MOORE, THEODORE C, AND PISIAS, NICKLAS; *MAPPING SPECTRAL VARIATIONS IN GLOBAL CLIMATE OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR (ATM-7825304 A01*)*; 12 MONTHS $50,000

TEXAS

TEXAS A & M UNIVERSITY

MCGUIRK, JAMES P; *VACILLATION: ITS VARIABILITY AND CLIMATE IMPLICATIONS (ATM-7726181 A01)*; 12 MONTHS $41,500

TEXAS TECH UNIVERSITY

LEARY, COLLEEN A; *MESOSCALE ORGANIZATION OF TROPICAL CONVECTION (ATM-8006100)*; 12 MONTHS $58,000

UTAH

UNIVERSITY OF UTAH

ASTLING, ELFORD G; *COMMERCIAL AIRCRAFT DATA COLLECTION FOR MONEX (ATM-7819895 A01)*; 6 MONTHS $4,100

VERMONT

INDIVIDUAL AWARD

BETTS, ALAN K; *DEVELOPMENT OF CONVECTIVE MODELS AND PARAMETERIZATIONS (ATM-7915788)*; 24 MONTHS $27,000

VIRGINIA

UNIVERSITY OF VIRGINIA

GARSTANG, MICHAEL; *CLOUD POPULATIONS AND THEIR INTERACTION WITH THE BOUNDARY LAYER (ATM-7421701 A06)*; 6 MONTHS $61,300

NICHOLSON, SHARON E; *STUDY OF ENVIRONMENTAL AND CLIMATIC CHANGES IN AFRICA DURING THE PAST 5 CENTURIES (ATM-7721547 A02)*; $400

FRANK, WILLIAM M; *HIGH TIME RESOLUTION ANALYSIS OF THE TROPICAL ATMOSPHERE DURING GATE (ATM-7910606 A01)*; 12 MONTHS $14,400

WARNER, CHARLES; *INVESTIGATION OF CLOUD POPULATIONS IN RELATION TO SYNOPTIC CONDITIONS OVER THE BAY OF BENGAL (ATM-8012214)*; 12 MONTHS $73,700

WASHINGTON

UNIVERSITY OF WASHINGTON

TROWBRIDGE, RICHARD, AND HEIBERG, ANDREAS; *ARCTIC BASIN BUOY PROGRAM (ATM-7721919 A02)*; 12 MONTHS $23,400

HOUZE, ROBERT A; *WEATHER RADAR EXPERIMENTS FOR MONEX (ATM-7800232 A02)*; $24,327

WALLACE, JOHN M, AND HARTMANN, DENNIS L; *GENERAL CIRCULATION STUDIES (ATM-7807369 A02)*; 12 MONTHS $115,900

HOUZE, ROBERT A; *STUDIES OF TROPICAL CONVECTION (ATM-7816859 A02)*; 12 MONTHS $34,600

REED, RICHARD J; *GATE DATA ANALYSIS AND RELATED STUDIES (ATM-7906105 A01)*; 12 MONTHS $86,400

HOLLOWAY, GREG; *PREDICTABILITY AND PREDICTION IN A SIMPLE MODEL ATMOSPHERE (ATM-7910604 A01)*; 12 MONTHS $36,700

PORTER, STEPHEN C; *EXTENT OF LATE PLEISTOCENE GLACIATION IN CENTRAL ASIA FOR USE IN MODEL SIMULATIONS OF ICE-AGE CLIMATE (ATM-8008245)*; 12 MONTHS $14,600

HOUZE, ROBERT A; *STUDIES OF WINTER MONSOON CLOUDS AND PRECIPITATION (ATM-8017327)*; 12 MONTHS $83,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

MARTIN, DAVID W; *THE STRUCTURE AND ENERGETICS OF CONVECTIVE SYSTEMS IN GATE (ATM-7805951 A02)*; 12 MONTHS $65,900

SUCHMAN, DAVID; *DEVELOPMENT OF METHODS FOR IMPROVED USE OF SATELLITE IMAGES AND SYNTHESIS WITH OTHER GATE DATA SETS (ATM-7809716 A01)*; 12 MONTHS $54,400

YOUNG, JOHN A, AND SIKDAR, DHIRENDRA N; *SUMMER MONSOON WINDSETS DERIVED FROM THE GEOSTATIONARY SATELLITE DATA OVER THE INDIAN OCEAN (ATM-7821873 A01)*; 12 MONTHS $43,400

JOHNSON, DONALD R; *DIAGNOSTICS OF THE HEAT SOURCES AND SINKS OF THE ASIATIC MONSOON AND THE THERMALLY FORCED PLANETARY SCALE RESPONSE (ATM-7822384 A01*)*; 12 MONTHS $54,200

YOUNG, JOHN A; *LOW-LEVEL MONSOON WIND DYNAMICS (ATM-7825503 A01)*; 12 MONTHS $90,200

HASTENRATH, STEFAN L; *INTERANNUAL VARIABILITY OF TROPICAL CLIMATE (ATM-7911131)*; 12 MONTHS $50,000

HOUGHTON, DAVID D; *THE SEASONAL CYCLE IN THE ATMOSPHERIC CIRCULATION (ATM-7911996)*; 12 MONTHS $79,500

HOUGHTON, DAVID D; *THE SEASONAL CYCLE IN THE ATMOSPHERIC CIRCULATION (ATM-7911996 A01)*; 17 MONTHS $1,650

SUOMI, VERNER E, HINTON, BARRY B, AND WYLIE, DONALD P; *PREPARATION OF A COMPOSITE SURFACE STRESS DATA SET FOR THE SUMMER PHASE OF MONEX (ATM-7913097)*; 12 MONTHS $78,100

KUTZBACH, JOHN E, AND SWAIN, ALBERT M; *COHMAP (CLIMATES OF THE HOLOCENE: MAPPING BASED ON POLLEN DATA) (ATM-7916443 A01)*; 12 MONTHS $53,100

KUTZBACH, JOHN E; *AN INTERDISCIPLINARY RESEARCH PROGRAM IN CLIMATOLOGY (ATM-7926039)*; 12 MONTHS $260,000

STULL, ROLAND B; *ANALYSIS OF GATE DATA FOR INTERNAL GRAVITY WAVES EXCITED BY CUMULUS CLOUDS (ATM-8012699)*; 12 MONTHS $46,300

UNIVERSITY OF WISCONSIN-MILWAUKEE

SIKDAR, DHIRENDRA N, AND MARTIN, DAVID W; *A SATELLITE STUDY OF SOUTH CHINA SEA DISTURBANCES DURING WINTER MONEX (ATM-7818319)*; 12 MONTHS $90,400

SIKDAR, DHIRENDRA N, AND MARTIN, DAVID W; *CONVECTION OVER THE INDIAN OCEAN AND THE MONSOON CIRCULATION DURING SUMMER MONEX (ATM-7920850)*; 12 MONTHS $73,500

INTERNATIONAL DECADE OF OCEAN EXPLORATION

ALASKA

UNIVERSITY OF ALASKA-FAIRBANKS-INSTITUTE OF MARINE SCIENCE

MCROY, C P; *SEAGRASS ECOSYSTEM STUDY: PATTERNS OF PROCESS DEVELOPMENT (SEAGRASS III) (OCE-7727050 A02)*; 12 MONTHS $223,100

GOERING, JOHN J; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): CONSUMPTION AND REGENERATION OF SILICIC ACID IN UPWELLING ECOSYSTEMS (CUEA COMPONENT 3) (OCE-7802019 A02)*; 3 MONTHS $11,600

CALIFORNIA

SAN DIEGO STATE UNIVERSITY

DORMAN, CLIVE E; *IPA MOBILITY ASSIGNMENT (DORMAN, CLIVE E.) (OCE-7823466 A03)*; $1,850

SAN FRANCISCO STATE UNIVERSITY

KELLEY, JAMES C; *INTERACTIVE REAL-TIME INFORMATION SYSTEM/IRIS (CUEA COMPONENT 2) (OCE-7727439 A02)*; 3 MONTHS $27,000

DAVIS, CURTISS O; *(OCE-7924939)*; 8 MONTHS $32,500

SAN JOSE STATE UNIVERSITY

BROENKOW, WILLIAM W; *OCEANOGRAPHIC SUPPORT FOR VERTICAL TRANSPORT STUDIES (OCE-7926797)*; 36 MONTHS $398,659

KNAUER, GEORGE A, AND MARTIN, JOHN H; *MULTIPITS: PHYTOPLANKTON, ZOOPLANKTON STUDIES; C, N, P AND TRACE ELEMENT ANALYSES (OCE-8003200)*; 36 MONTHS $375,266

STANFORD UNIVERSITY

INGLE, JAMES C; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7918285)*; 12 MONTHS $64,253

INGLE, JAMES C; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7918285 A01)*; 12 MONTHS $60,705

UNIVERSITY OF CALIFORNIA, BERKELEY

RISEBROUGH, ROBERT W; *DETERMINATION OF HIGHER-MOLECULAR WEIGHT HYDROCARBONS IN WATER AND ON PARTICLES FROM UPPER LAYERS OF THE OCEAN (OCE-8001727)*; 12 MONTHS $83,721

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

SHOR, GEORGE G, AND CURRAY, JOSEPH R; *SOUTHEAST ASIA TECTONICS: SUNDA TRANSECT (OCE-7624101 A03)*; 6 MONTHS $42,100

PAZAN, STEPHEN E; *NORTH PACIFIC EXPERIMENT (NORPAX): DATA PROGRAM (OCE-7722730 A01)*; 36 MONTHS $248,400

CHUNG, YU-CHIA, CRAIG, HARMON, AND FINKEL, ROBERT C; *GEOCHEMICAL OCEAN SECTIONS STUDY (GEOSECS) - RADIOACTIVE ISOTOPES RA-226, PARTICULATE PB-210, SOLUBLE AND PARTICULATE PO-210, AND RADON (OCE-7724526 A01)*; 6 MONTHS $46,380

CRAIG, HARMON, CHUNG, YU-CHIA, AND LUPTON, JOHN E; *GEOCHEMICAL OCEAN SECTIONS STUDY (GEOSECS) - INTERPRETATION AND MODELING STUDIES OF GEOSECS ATLANTIC AND PACIFIC DATA (OCE-7724925 A01)*; 6 MONTHS $75,441

LUPTON, JOHN E, AND CRAIG, HARMON; *GEOCHEMICAL OCEAN SECTIONS STUDY (GEOSECS) - INDIAN OCEAN STUDIES: MASS SPECTROMETRIC MEASUREMENTS OF HE-3, RARE GASES, AND STABLE ISOTOPES (OCE-7724834 A01)*; 6 MONTHS $76,538

MACDONALD, KENNETH C, AND ORCUTT, JOHN A; *SHALLOW STRUCTURE OF THE OCEANIC CRUST USING SEAFLOOR SOURCES AND RECEIVERS (OCE-7805738 A01)*; 12 MONTHS $39,600

SHOR, GEORGE G; *THE MARIANA-PHILIPPINE TRANSECT ZONE: SEISMIC REFRACTION STUDIES IN THE INTERINSTITUTIONAL SEATAR PROGRAM (OCE-7816758 A04)*; 12 MONTHS $23,525

BERNSTEIN, ROBERT L; *THE SCRIPPS SATELLITE REMOTE SENSING FACILITY (OCE-7819888 A01*)*; 12 MONTHS $83,500

SPIESS, FRED N; *RISE PROGRAM: CURATING AND PRELIMINARY SAMPLE DESCRIPTION (OCE-7821082 A02)*; $32,200

PATZERT, WILLIAM C, AND MCNALLY, GERARD J; *NORTH PACIFIC EXPERIMENT (NORPAX): A DRIFTING BUOY STUDY OF THE PACIFIC NORTH EQUATORIAL CURRENT AND COUNTERCURRENT IN 1979 AND 1980 (OCE-7822308 A01)*; 15 MONTHS $312,114

KNOX, ROBERT A; *NORTH PACIFIC EXPERIMENT (NORPAX): STUDIES OF EQUATORIAL DYNAMICS AND LONG-PERIOD TRANSPORT VARIATIONS IN THE CENTRAL PACIFIC (OCE-7823134 A01)*; 12 MONTHS $139,300

CUTCHIN, DAVID L, AND COX, CHARLES S; *NORTH PACIFIC EXPERIMENT (NORPAX) - NORPAX TRAVEL GRANT (OCE-7825134 A01)*; $26,250

FILLOUX, JEAN H; *DENSE DIRECT OBSERVATIONS OF LONG-TERM PRESSURE FLUCTUATIONS ON THE OPEN OCEAN FLOOR (OCE-7825324 A01*)*; 12 MONTHS $35,000

HENDERSHOTT, MYRL C, AND SALMON, RICHARD L; *JOINT US-USSR MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE) STAT. PROPERTIES OF QUASI-GEOSTROPHIC OCEAN FLOW MODELS & THEIR RELATIONSHIP W/SOLUTIONS EXHIBITING PERSISTENT STRUCTURE (OCE-7825670 A01)*; 12 MONTHS $80,000

MACDOUGALL, J DOUGLAS; *MANGANESE NODULE GROWTH RATE (OCE-7827364 A01)*; 12 MONTHS $7,990

NEALSON, KENNETH H; *STUDIES OF MANGANESE OXIDIZING BACTERIA AND THE ASSESSMENT OF THEIR ROLE IN MARINE MANGANESE DEPOSITION (OCE-7827383 A01)*; 12 MONTHS $59,543

RIEDEL, WILLIAM R; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: SCRIPPS INSTITUTION OF OCEANOGRAPHY (OCE-7827461 A01*)*; 12 MONTHS $20,125

WEISS, RAY F; *MANOP BOTTOM LANDER PROJECT (OCE-7900629 A01)*; 12 MONTHS $415,980

SPIESS, FRED N; *STUDIES OF THE BRUHNES/MATUYAMA REVERSAL BOUNDARY (OCE-7900984 A01)*; 12 MONTHS $18,100

GOLDBERG, EDWARD D, AND MIZIOLEK, ANDRZEJ W; *LASER ANALYSIS OF GAS PHASE METALS (OCE-7914613*)*; 12 MONTHS $131,075

MEYERS, GARY A; *NORTH PACIFIC EXPERIMENT (NORPAX): DESIGN OF A NETWORK FOR MONITORING THERMAL STRUCTURE OF THE TROPICAL PACIFIC OCEAN (OCE-7918294)*; 12 MONTHS $75,000

FILLOUX, JEAN H; *MAGNETOTELLURIC EXPLORATION OF THE NORTH PACIFIC: IMPROVED RESOLUTION, DEEPER PENETRATION AND WESTWARD EXTENSION (OCE-7918382*)*; 12 MONTHS $[illegible],500

VINCENT, EDITH S, AND BERGER, WOLFGANG H; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7919090)*; 12 MONTHS $68,300

VINCENT, EDITH S, AND BERGER, WOLFGANG H; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7919090 A01)*; 12 MONTHS $76,300

NAMIAS, JEROME; *NORTH PACIFIC EXPERIMENT (NORPAX): LARGE-SCALE AND LONGTERM AIR SEA INTERACTION OVER THE PACIFIC OCEAN AND REMOTE WEATHER AND CLIMATE INFLUENCES (OCE-7919237)*; 12 MONTHS $155,000

WHITE, WARREN B, AND SAUR, J F; *NORTH PACIFIC EXPERIMENT (NORPAX): LARGE-SCALE STANDING AND TRAVELING WAVES IN THE SUBSURFACE TEMPERATURE FIELD IN THE EASTERN NORTH PACIFIC (OCE-7919602)*; 12 MONTHS $46,767

WILLIAMS, ROBERT T; *OCEANOGRAPHIC DATA COLLECTION AND PROCESSING EQUIPMENT (OCE-7921452)*; 12 MONTHS $331,189

WILLIAMS, ROBERT T; *OCEANOGRAPHIC DATA PROCESSING AND COLLECTION EQUIPMENT (OCE-7921452 A01)*; $40,500

DAVIS, RUSS E, AND WINANT, CLINTON D; *A PILOT STUDY OF COASTAL OCEAN CURRENTS OFF NORTHERN CALIFORNIA (OCE-7921783*)*; 12 MONTHS $77,112

MEYERS, GARY A, AND WHITE, WARREN B; *LARGE-SCALE VARIATION IN SUBSURFACE TEMPERATURE OF THE TROPICAL PACIFIC OCEAN (OCE-7921787)*; 8 MONTHS $70,400

CUTCHIN, DAVID L, AND PATZERT, WILLIAM C; *SURFACE WEATHER OBSERVATIONS FROM SHIPS IN THE TROPICAL PACIFIC (OCE-7921819)*; 12 MONTHS $23,900

KNOX, ROBERT A; *TROPICAL WIND STRESS ANALYSIS (OCE-7921836)*; 12 MONTHS $41,100

SPIESS, FRED N; *EQUIPMENT GRANT: CONDUCTING TOW CABLE FOR DEEP-TOW INSTRUMENT SYSTEM (OCE-7922340*)*; 12 MONTHS $40,000

CUTCHIN, DAVID L; *NORTH PACIFIC EXPERIMENT (NORPAX): PROJECT ADMINISTRATION (OCE-7924358)*; 12 MONTHS $81,700

LONSDALE, PETER F; *STUDIES IN EAST ASIA TECTONICS AND RESOURCES (SEATAR) DEEP TOW STUDIES OF PLATE ACCRETION IN THE MARIANA TROUGH BACK-ARC BASIN (OCE-7924974)*; 12 MONTHS $126,461

WEISS, RAY F; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): CARBON DIOXIDE AND NITROUS OXIDE MEASUREMENTS (OCE-7925886)*; 12 MONTHS $94,552

WILLIAMS, ROBERT T; *GEOCHEMICAL OCEAN SECTIONS STUDY (GEOSECS): OPERATIONS GROUP (OCE-8001725)*; 12 MONTHS $343,837

WINANT, CLINTON D, AND DAVIS, RUSS E; *COASTAL OCEAN DYNAMICS EXPERIMENT (CODE): THE SMALL-SCALE ARRAY (OCE-2014942)*; 4 MONTHS $369,700

UNIVERSITY OF CALIFORNIA, SAN DIEGO

MICHEL, ROBERT L; *TRITIUM DISTRIBUTION IN THE NORTHWEST PACIFIC (OCE-8008533*)*; 12 MONTHS $21,764

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

CHILDRESS, JAMES J; *MIDWATER ECOSYSTEM ANALYSIS - AN OCEANIC PROBLEM AREA (OCE-7922003)*; 12 MONTHS $20,300

FULLER, MICHAEL D; *STUDIES IN EAST ASIA TECTONICS AND RESOURCES PALEOMAGNETISM OF THE MARIANA - PHILIPPINE TRANSECT (OCE-7923920 A01)*; $12,217

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

BRULAND, KENNETH W; *STUDIES ON TRACE ELEMENTS AND NATURAL SERIES RADIONUCLIDES (OCE-7923322)*; 36 MONTHS $250,586

UNIVERSITY OF SOUTHERN CALIFORNIA

KU, TEH-LUNG; *GEOCHEMICAL OCEAN SECTIONS STUDY (GEOSECS) - INDIAN OCEAN EXPEDITION -- RA-226 ANALYSIS (OCE-7724832 A02)*; 6 MONTHS $19,458

FRIEDHEIM, ROBERT L; *JAPANESE OCEAN POLICY AND POLICY-MAKING (OCE-7726176 A01)*; 12 MONTHS $100,826

GORSLINE, DONN S; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: UNIVERSITY OF SOUTHERN CALIFORNIA (OCE-7825878 A01*)*; 12 MONTHS $7,525

KU, TEH-LUNG; *RADIOCHEMICAL STUDIES OF MANGANESE NODULES FROM MANOP STUDY AREAS (OCE-7901092 A01)*; 12 MONTHS $70,637

DOUGLAS, ROBERT G; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7919093)*; 12 MONTHS $51,596

DOUGLAS, ROBERT G; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7919093 A01)*; 12 MONTHS $52,070

DICKEY, T D; *A NUMERICAL MODEL OF THE BOTTOM BOUNDARY LAYER AND SEDIMENT TRANSPORT ON THE CONTINENTAL SHELF (OCE-8001709*)*; 12 MONTHS $25,326

DUGDALE, RICHARD C; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS, KINETICS OF NUTRIENT UPTAKE (OCE-8015705)*; 12 MONTHS $25,449

CONNECTICUT

YALE UNIVERSITY

TUREKIAN, KARL K; *GEOCHEMICAL OCEAN SECTIONS STUDY (GEOSECS) - 210PB AND 210PO IN INDIAN OCEAN GEOSECS PROFILES (OCE-7720783 A01)*; 6 MONTHS $1,517

DELAWARE

UNIVERSITY OF DELAWARE-COLLEGE OF MARINE STUDIES

MOOERS, CHRISTOPH N; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): PHYSICAL DYNAMICS OF THE FRONTAL ZONE (CUEA COMPONENT 4) (OCE-7728354 A03)*; 3 MONTHS $18,500

UNIVERSITY OF DELAWARE

TRIPP, MARENES R, AND FRIES, CARA R; *POLLUTANT RESPONSES IN MARINE ANIMALS (PRIMA) HISTOPATHOLOGY AND IMMUNITY AS INDICATORS OF CHEMICAL STRESS (OCE-7724037 A02)*; 12 MONTHS $89,497

DISTRICT OF COLUMBIA

COURTESY TRAVEL SERVICE

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (INT-8018782*)*; 12 MONTHS $50,000

FLORIDA

FLORIDA STATE UNIVERSITY

IVERSON, RICHARD L; *SEAGRASS ECOSYSTEM STUDY (SEAGRASS III): ENVIRONMENTAL CONTROL OF SEAGRASS PRODUCTIVITY (OCE-7727052 A02)*; 12 MONTHS $69,100

STUART, DAVID W; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): METEOROLOGY (COMPONENT 27) (OCE-7727735 A02)*; 3 MONTHS $9,000

O'BRIEN, JAMES J; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): SIMULATION OF TIME-DEPENDENT COASTAL UPWELLING CIRCULATION (CUEA COMPONENT 8) (OCE-7800611 A02)*; 3 MONTHS $20,000

NOVA UNIVERSITY-OCEAN SCIENCE CENTER

MOORE, DENNIS W, AND WITTE, JANET M; *PLANNING AN EQUATORIAL DYNAMICS PROGRAM (OCE-7808500 A02)*; 5 MONTHS $18,980

MCCREARY, JULIAN P; *NORTH PACIFIC EXPERIMENT (NORPAX): A MODEL OF TROPICAL OCEAN-ATMOSPHERE COUPLING (OCE-7919698)*; 12 MONTHS $48,550

MCCREARY, JULIAN P; *STUDIES OF TROPICAL WIND-DRIVEN OCEAN CIRCULATION (OCE-7921785)*; 12 MONTHS $41,900

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

OSTLUND, H G, AND FINE, RANA A; *GEOCHEMICAL OCEAN SECTIONS STUDY - (GEOSECS) INDIAN OCEAN RADIOCARBON AND TRITIUM (OCE-7724039 A03)*; 6 MONTHS $35,921

REEVE, MICHAEL R; *CONTROLLED ECOSYSTEM POPULATIONS EXPERIMENT (CEPEX) - THE PLANKTON CARNIVORES AND OTHER MACROZOOPLANKTON POPULATIONS AND THEIR ECOLOGICAL INTERACTIONS (OCE-7727223 A02)*; 6 MONTHS $11,122

OSTLUND, H G, AND FINE, RANA A; *NORTH PACIFIC EXPERIMENT (NORPAX): EXCHANGE RATES OF EQUATORIAL WATERS FROM TRITIUM STUDIES (OCE-7822120 A01)*; 12 MONTHS $72,109

MERRILL, J T, AND PROSPERO, JOSEPH M; *SEA-AIR EXCHANGE (SEAREX) - PHYSICAL ASPECTS OF SEA-AIR EXCHANGE BUBBLES AND SPRAY (OCE-7914616 A01)*; 12 MONTHS $147,246

VAN LEER, JOHN C, AND LEAMAN, KEVIN D; *JOINT U.S.- U.S.S.R. MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE) : UPPER OCEAN SOUNDINGS OF CURRENT VELOCITY AS PART OF SYNOPTIC LOCAL DYNAMICS EXPERIMENT (OCE-7924199)*; 12 MONTHS $89,628

OSTLUND, H G; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): RADIOCARBON AND TRITIUM MEASUREMENTS (OCE-7925889)*; 12 MONTHS $28,706

BEDARD, PHILIP P; *NORTH PACIFIC EXPERIMENT (NORPAX): UPPER OCEAN CURRENT MEASUREMENTS NEAR THE EQUATOR AT 153 DEGREES WEST, MAY, 1979 TO APRIL, 1980 (OCE-8000019)*; 12 MONTHS $39,910

GEORGIA

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

LEE, RICHARD F; *POLLUTANT RESPONSES IN MARINE ANIMALS (PRIMA) BIOTRANSFORMATION OF ORGANIC POLLUTANTS IN SELECTED MARINE INVERTEBRATES (OCE-7724516 A02)*; 12 MONTHS $101,852

HAWAII

UNIVERSITY OF HAWAII-MANOA

VITOUSEK, MARTIN J; *NORTH PACIFIC EXPERIMENT (NORPAX): LINE ISLANDS MONITORING (OCE-7722873 A02)*; 12 MONTHS $78,706

BRIDGES, KENT W; *SEAGRASS ECOSYSTEM STUDY: PROJECT MANAGEMENT (SEAGRASS III) (OCE-7727053 A02)*; 12 MONTHS $85,200

BRIDGES, KENT W; *SEAGRASS ECOSYSTEM STUDY (SEAGRASS III): ECOSYSTEM PATTERN SIMULATIONS (OCE-7727054 A02)*; 12 MONTHS $44,700

WYRTKI, KLAUS; *NORTH PACIFIC EXPERIMENT (NORPAX): STUDIES ON THE INTERACTION OF CIRCULATION, SEA LEVEL, HEAT STORAGE AND WINDS OVER THE PACIFIC OCEAN AS PART OF THE NORTH PACIFIC EXPERIMENT (OCE-7820035 A01)*; 12 MONTHS $278,782

WYRTKI, KLAUS; *NORTH PACIFIC EXPERIMENT (NORPAX): STUDIES ON THE INTERACTION OF CIRCULATION, SEA LEVEL, HEAT STORAGE AND WINDS OVER THE PACIFIC OCEAN AS PART OF THE NORTH PACIFIC EXPERIMENT (OCE-7820035 A02)*; $36,533

WYRTKI, KLAUS; *NORTH PACIFIC EXPERIMENT (NORPAX): A TRANSEQUATORIAL SHUTTLE EXPERIMENT (OCE-7820719 A03)*; 12 MONTHS $359,780

STROUP, EDWARD D; *NORTH PACIFIC EXPERIMENT (NORPAX): TRANSEQUATORIAL AIR XBT SECTIONS DURING THE SHUTTLE EXPERIMENT (OCE-7823792 A02)*; 12 MONTHS $148,355

RESIG, JOHANNA M; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: UNIVERSITY OF HAWAII (OCE-7825453 A02*)*; 12 MONTHS $8,705

SMITH, STEPHEN V; *RETRIEVING ANNUAL CYCLES OF WATER TEMPERATURE BY CORAL THERMOMETRY (OCE-7903945 A01*)*; $2,057

HUSSONG, DONALD M; *STUDIES IN EAST ASIA TECTONICS AND RESOURCES (SEATAR) MARIANA FORE-ARC TECTONICS (OCE-7919636 A01)*; $14,021

WYRTKI, KLAUS; *MONITORING PACIFIC SEA LEVEL FLUCTUATIONS (OCE-7921789)*; 12 MONTHS $42,471

MOORE, DENNIS W; *THE RESPONSE OF THE EQUATORIAL OCEAN TO VARIABLE SURFACE STRESSES; AND EQUATORIAL THEORETICAL PANEL (OCE-7921831)*; 12 MONTHS $34,000

MOORE, DENNIS W, AND FIRING, ERIC; *LINE ISLAND PROFILING (OCE-7923369)*; 12 MONTHS $223,487

KARL, DAVID M; *ROLE OF MICROORGANISMS IN BIOLOGICAL CYCLING AND MATERIAL TRANFER IN THE OCEAN (OCE-8005180)*; 36 MONTHS $215,355

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

CHAN, LUI-HEUNG; *GEOCHEMICAL OCEAN SECTIONS STUDY (GEOSECS) - DETERMINATION OF BARIUM CONCENTRATION IN INDIAN OCEAN WATERS (OCE-7721404 A01)*; 6 MONTHS $13,000

MAINE

NORTHEASTERN RESEARCH FOUNDATION INC-BIGELOW LABORATORY FOR OCEAN SCIENCES

DUGDALE, RICHARD C, AND MACISAAC, JANE J; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): KINETICS OF NUTRIENT UPTAKE (CUEA COMPONENT 11) (OCE-7727006 A02)*; 3 MONTHS $23,600

PACKARD, THEODORE T; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): ENZYMATIC DETERMINATION OF BIOLOGICAL TRANSFORMATIONS (CUEA COMPONENT 12) (OCE-7800610 A02)*; 3 MONTHS $24,600

PACKARD, THEODORE T; *ANALYSIS OF THE THE ENZYMATIC RATE DATA FROM UPWELLING PLANKTON COMMUNITIES (OCE-8011187)*; 12 MONTHS $24,569

BLASCO, DOLORS; *PHYTOPLANKTON STUDIES IN UPWELLING REGIONS (OCE-8011216)*; 24 MONTHS $77,698

MARYLAND

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION-NATIONAL ENVIRONMENTAL SATELLITE SERVICE

LUDWIG, GEORGE H; *SUPPORT FOR THE TIROS-N SATELLITE DATA COLLECTION SYSTEM (ATM-8008813*)*; 12 MONTHS $40,000

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

HALPERN, DAVID; *NORTH PACIFIC EXPERIMENT (NORPAX): STUDIES OF EQUATORIAL DYNAMCS AND LOND-PERIOD TRANSPORT VARIATIONS IN THE CENTRAL PACIFIC (OCE-7826125 A01)*; 12 MONTHS $80,100

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

WUNSCH, CARL; *JOINT U.S.-U.S.S.R. MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE): COORDINATION, PLANNING, WORKSHOPS, COMMUNICATION AND ADMINISTRATION (OCE-7716824 A02)*; 12 MONTHS $219,000

FLIERL, GLENN R; *(POLYMODE): THEORETICAL STUDIES OF LAGRANGIAN KINEMATICS AND DYNAMICS OF GULF STREAM RINGS (OCE-7728350 A02)*; 6 MONTHS $26,000

WUNSCH, CARL; *JOINT US-USSR MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE): A STUDY OF THE EFFECTS OF LOW-FREQUENCY OCEANIC VARIABILITY IN THE WESTERN NORTH ATLANTIC OCEAN (OCE-7819833 A01)*; 12 MONTHS $138,500

FRANKIGNOUL, CLAUDE; *JOINT US-USSR MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE): LOW-FREQUENCY VARIABILITY IN THE SURFACE MIXED LAYER (OCE-7825613 A01)*; 12 MONTHS $67,800

WUNSCH, CARL, AND HARRISON, D E; *EDDIES AND THE GENERAL CIRCULATION OF MODEL OCEANIC GYRES (POLYMODE) (OCE-7825659 A01)*; 12 MONTHS $19,600

BURNS, ROGER G, AND BURNS, VIRGINIA M; *MINERALOGICAL CHANGES AND CHEMICAL VARIATIONS IN MANGANESE NODULE PHASES EXPOSED NEAR THE SEA FLOOR (OCE-7827495 A01)*; 12 MONTHS $36,350

SCLATER, JOHN G; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7917016)*; 12 MONTHS $20,000

SCLATER, JOHN G; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7917016 A01)*; 12 MONTHS $8,455

HART, STANLEY R; *GEOCHEMISTRY AND PETROLOGY OF INDONESIAN AND PHILIPPINE ARC MAGMAS (OCE-7920999)*; 12 MONTHS $43,820

HARRISON, D E; *TROPICAL WIND STRESS ANALYSIS (OCE-7921815)*; 12 MONTHS $22,930

WUNSCH, CARL, AND ERIKSEN, CHARLES C; *STUDIES OF THE DYNAMICS OF THE EQUATORIAL PACIFIC OCEAN (OCE-7921816)*; 12 MONTHS $180,000

WUNSCH, CARL, AND ERIKSEN, CHARLES C; *STUDIES OF THE DYNAMICS OF THE EQUATORIAL PACIFIC OCEAN (OCE-7921816 A01)*; $61,900

WUNSCH, CARL, AND ERIKSEN, CHARLES C; *DESIGN AND DEVELOPMENT OF UPPER EQUATORIAL OCEAN PROFILING SYSTEM (OCE-7921817)*; 12 MONTHS $121,794

WOODS HOLE OCEANOGRAPHIC INSTITUTION

BRYDEN, HARRY L, LUYTEN, JAMES R, AND OWENS, W B; *U.S.-U.S.S.R MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE): A STUDY OF THE MESOSCALE POTENTIAL VORTICITY AND HEAT BUDGET IN THE OCEANIC THERMOCLINE (OCE-7719403 A01)*; 24 MONTHS $280,500

BRYDEN, HARRY L; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): DYNAMICS OF LOW-FREQUENCY MOTIONS AND THEIR EFFECTS ON THE ANTARCTIC CIRCUMPOLAR CURRENT IN THE REGION EAST OF MACQUARIE RIDGE (OCE-7722887 A02)*; 24 MONTHS $125,000

STEGEMAN, JOHN J; *POLLUTANT RESPONSES OF MARINE ANIMALS (PRIMA) INDUCTION OF MICROSOMAL OXYGENASES AND BIOTRANSFORMATION OF HYDROCARBONS IN FISH (OCE-7724517 A02)*; 12 MONTHS $106,935

WEBB, DOUGLAS C, AND SCHMITZ, WILLIAM J; *ACOUSTICALLY-TRACKED, NEUTRALLY-BUOYANT FLOAT OPERATIONS AND DEVELOPMENT, AND A PROGRAM OF PRELIMINARY EXPLORATION OF HIGHLY DISPERSIVE REGIONS OF THE WESTERN N. ATLANTIC OCEAN (OCE-7818007 A01*)*; 12 MONTHS $484,038

JENKINS, WILLIAM J; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): A STUDY OF SOUTHERN OCEAN WATER MASS RENEWAL AND CIRCULATION IN THE SOUTH AMERICAN SECTOR USING HELIUM ISOTOPES AND TRITIUM (OCE-7821734 A01)*; 12 MONTHS $86,264

DESAUBIES, YVES J; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): INVESTIGATIONS OF THE FORCING OF THE ANTARCTIC CIRCUMPOLAR CURRENT SYSTEM BY THE ATMOSPHERE (OCE-7821996 A01)*; 12 MONTHS $38,000

MCCARTNEY, MICHAEL S, AND GEORGI, DANIEL T; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): ANTARCTIC INTERMEDIATE WATER RENEWAL AND CIRCULATION (OCE-7822223 A01*)*; 12 MONTHS $295,557

JOHNSON, DAVID A; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: WOODS HOLE OCEANOGRAPHIC INSTITUTION (OCE-7825231 A01*)*; 12 MONTHS $16,132

WIEBE, PETER H, AND JOYCE, TERRENCE M; *WARM CORE RINGS PLANNING MEETING (OCE-7825282 A01)*; 6 MONTHS $3,990

RHINES, PETER B; *JOINT US-USSR MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE): DYNAMICS OF OCE EDDIES: TURBULENT DIFFUSION, LATERAL PROPAGATION,& MEAN-FLOW INDUCTION & ADMIN. OF THE POLY.THEO.PANEL (OCE-7825692 A01)*; 12 MONTHS $62,500

HAIDVOGEL, DALE B; *JOINT US-USSR MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE): MESOSCALE EDDY GENERATION, PROPAGATION AND EQUILIBRATION IN THE OCEAN (OCE-7825700 A01)*; 12 MONTHS $50,286

JENKINS, WILLIAM J; *FABRICATION OF EQUIPMENT FOR TRITIUM/HELIUM MEASUREMENTS (OCE-7913206 A01)*; 12 MONTHS $37,047

LOHMANN, GEORGE P, AND HAQ, BILAL U; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7918286)*; 12 MONTHS $81,250

LOHMANN, GEORGE P; *CENOZOIC PALEPCEANOGRAPHY PROJECT (CENOP) (OCE-7918286 A01)*; 12 MONTHS $78,000

CLARK, HAYS L; *IPA MOBILITY ASSIGNMENT (CLARK, HAYS LAWRENCE) (OCE-7918754 A02*)*; 13 MONTHS $5,000

JENKINS, WILLIAM J; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): TRITIUM AND HELIUM-3 MEASUREMENTS (OCE-7921378)*; 12 MONTHS $331,000

LUYTEN, JAMES R, STOMMEL, HENRY M, VOORHIS, ARTHUR D, AND WEBB, DOUGLAS C; *LARGE-SCALE ZONAL STRUCTURE OF EQUATORIAL CURRENTS IN THE TROPICAL PACIFIC (OCE-7921786)*; 6 MONTHS $103,249

EWING, JOHN I, SCHOUTEN, HANS, AND PURDY, G M; *LARGE APERTURE SEISMIC EXPERIMENT (LASE) (OCE-7924174*)*; 12 MONTHS $70,800

JENKINS, WILLIAM J; *DEVELOPMENT AND UTILIZATION OF AN ON-BOARD FREON-11 MEASUREMENT SYSTEM (OCE-7925884)*; 12 MONTHS $96,333

GEORGI, DANIEL T; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): INVESTIGATION OF FINESTRUCTURE (OCE-7925968)*; 18 MONTHS $28,200

BREWER, PETER G, AND BRADSHAW, ALVIN L; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): ALKALINITY AND TOTAL CARBON DIOXIDE MEASUREMENTS (OCE-8008160)*; 12 MONTHS $147,635

BREWER, PETER G, AND BRADSHAW, ALVIN L; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS-TTO): ALKALINITY AND TOTAL CARBON DIOXIDE MEASUREMENTS (OCE-8008160 A01)*; $21,554

GRANT, WILLIAM D, AND WILLIAMS, ALBERT J; *COASTAL OCEAN DYNAMICS EXPERIMENT (CODE): BOTTOM BOUNDARY SHEAR STRESS (OCE-8014938)*; 4 MONTHS $96,500

BEARDSLEY, ROBERT C; *COASTAL OCEAN DYNAMICS EXPERIMENT (CODE): OCEAN CURRENT AND WIND MEASUREMENTS (OCE-8014941)*; 3 MONTHS $218,300

ARMI, LAURENCE D; *TRANSIENT TRACERS IN THE OCEAN: OCEAN MIXING AND CIRCULATION (OCE-8016125)*; 6 MONTHS $41,596

MICHIGAN

MICHIGAN STATE UNIVERSITY

KLUG, MICHAEL J, AND WETZEL, ROBERT G; *SEAGRASS ECOSYSTEM STUDY (SEAGRASS III): DECOMPOSITION AND PRIMARY PRODUCTIVITY (OCE-7726354 A02)*; 12 MONTHS $123,600

MINNESOTA

UNIVERSITY OF MINNESOTA

HUYER, ADRIANA, AND SMITH, ROBERT L; *STUDIES OF THE PHYSICAL OCEANOGRAPHY OVER THE OREGON CONTINENTAL MARGIN (OCE-7925019*)*; 12 MONTHS $42,595

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

DOUGLAS, ARTHUR V; *NORTH PACIFIC EXPERIMENT (NORPAX): INVESTIGATING THE EFFECTS OF PACIFIC AIR-SEA INTERACTIONS ON THE PRECIPITATION REGIMES OF SOUTHERN NORTH AMERICA (OCE-8004663)*; 12 MONTHS $27,173

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

BROWN, WENDELL S; *A DENSITY CHAIN INTERCOMPARISON (OCE-7921833*)*; 12 MONTHS $63,902

BROWN, WENDELL S, AND IRISH, JAMES D; *COASTAL OCEAN DYNAMICS EXPERIMENT (CODE): THE PRESSURE PROGRAM (OCE-8014940)*; 4 MONTHS $169,600

NEW JERSEY

PRINCETON UNIVERSITY

SARMIENTO, JORGE L; *DISTRIBUTION OF RADIUM-228 IN THE EAST ATLANTIC (OCE-8019946)*; 36 MONTHS $66,453

NEW YORK

BROOKHAVEN NATIONAL LABORATORY

WALSH, JOHN J; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): SYSTEM MODEL OF UPWELLING ECOSYSTEMS (CUEA COMPONENT 1) (OCE-7805736 A02)*; 3 MONTHS $44,800

WHITLEDGE, TERRY E, JUDKINS, DAVID C, AND DAGG, MICHAEL J; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): NUTRIENT REGENERATION AND EXCRETION (CUEA COMPONENT 28) (OCE-7805737 A02)*; 12 MONTHS $34,100

ROWE, GILBERT T; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): CARBON, NITROGEN, AND PHOSPHORUS CYCLES ON THE SEA FLOOR OF UPWELLING REGIONS (CUEA COMPONENTS 23) (OCE-7912600 A01)*; 3 MONTHS $14,700

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

RUDDIMAN, WILLIAM F; *CLIMATE, LONG-RANGE INVESTIGATION, MAPPING AND PREDICTION (CLIMAP): GLOBAL PALEO-OCEANOGRAPHIC STUDIES OF LATE QUATERNARY OCEAN CIRCULATION AND CLIMATE (OCE-7722893 A02*)*; 12 MONTHS $153,900

RUDDIMAN, WILLIAM F, AND CLINE, ROSE M; *CLIMATE, LONG-RANGE INVESTIGATIONS, MAPPING AND PREDICTION (CLIMAP): GLOBAL PALEO-OCEANOGRAPHIC STUDIES OF LATE QUATERNARY OCEAN CIRCULATION AND CLIMATE (OCE-7722893 A03)*; 6 MONTHS $56,747

OPDYKE, NEIL D, AND MCCOY, FLOYD W; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: LAMONT-DOHERTY GEOLOGICAL OBSERVATORY (OCE-7825448 A01*)*; 12 MONTHS $44,050

HAYS, JAMES D; *MAPPING SPECTRAL VARIATIONS IN GLOBAL CLIMATE OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR--PROJECT SPECMAP (ATM-7825939 A01*)*; 12 MONTHS $75,000

BROECKER, WALLACE S, AND SANTSCHI, PETER; *CALIBRATION AND VERIFICATION OF THE BOTTOM CHAMBERS (OCE-7828069 A01)*; 12 MONTHS $80,315

BROECKER, WALLACE S, PENG, TSUNG HUN, AND SMETHIE, WILLIAM M; *KR-85 MEASUREMENT FACILITY (OCE-7918012 A01)*; 12 MONTHS $143,170

BURCKLE, LLOYD H, AND HAYS, J D; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7919092)*; 12 MONTHS $91,800

HAYES, JAMES D, AND BURCKLE, LLOYD H; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7919092 A01)*; 12 MONTHS $112,554

PITMAN, WALTER C, STOFFA, PAUL L, AND TALWANI, MANIK; *LARGE APERTURE SEISMIC EXPERIMENT (LASE) (OCE-7922884*)*; 12 MONTHS $80,500

HOUGHTON, ROBERT W; *GULF OF GUINEA HISTORICAL DATA STUDY (OCE-7923632*)*; 24 MONTHS $132,770

BROECKER, WALLACE S, SMETHIE, WILLIAM M, AND PENG, TSUNG HUN; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): KRYPTON-85 AND RADON-222 MEASUREMENTS AND OCEANIC MODELING (OCE-7925888)*; 12 MONTHS $98,360

TAKAHASHI, TARO; *NORTH ATLANTIC STUDY OF TRANSIENT TRACERS (NAS-TTO): INVESTIGATION OF CARBON DIOXIDE PARTIAL PRESSURE, HYDROGEN ION ACTIVITY, AND THE CARBONATE CHEMISTRY OF SEAWATER (OCE-8008349)*; 12 MONTHS $50,038

HAYES, DENNIS E; *PLANNING, COORDINATION, AND FINAL SUMMATION OF THE U. S. SEATAR ACTIVITIES (OCE-8018693)*; 12 MONTHS $47,210

CORNELL UNIVERSITY

KARIG, DANIEL E; *STUDIES IN EAST ASIA TECTONICS AND RESOURCES (SEATAR) STRUCTURE AND EVOLUTION OF THE ZAMBALES OPHIOLITE, WEST LUZON ARC (OCE-7919164 A01)*; $5,519

KARIG, DANIEL E; *STUDIES IN EAST ASIA TECTONICS AND RESOURCES (SEATAR) - THE SUNDA TRANSECT, PART I, AUGMENTATION OF GEOLOGICAL AND GEOPHYSICAL DATA FROM THE SUMATRA AREA (OCE-7924973)*; 12 MONTHS $35,619

SLOAN KETTERING INSTITUTE FOR CANCER RESEARCH

ANDERSON, ROBERT S; *POLLUTANT RESPONSES IN MARINE ANIMALS (PRIMA) EFFECTS OF POLLUTION ON IMMUNE COMPETENCE OF*

INVERTEBRATE MARINE ANIMALS (OCE-7723443 A02); 12 MONTHS $78,180

NORTH CAROLINA

DUKE UNIVERSITY-MARINE LABORATORY

BARBER, RICHARD T; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): PROJECT MANAGEMENT (COMPONENT 26) (OCE-7903043 A03)*; 3 MONTHS $57,000

BARBER, RICHARD T. AND HUNTSMAN, SUSAN A; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): PRIMARY PRODUCTION, CHELATION AND TOXICITY (CUEA COMPONENT 15) (OCE-7903043 A02)*; 3 MONTHS $25,300

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

WEISBERG, ROBERT H. AND HORIGAN, ALLEN M; *SEASONAL VARIABILITY IN THE EQUATORIAL ATLANTIC (OCE-7923335*)*; 18 MONTHS $367,230

OHIO

CASE WESTERN RESERVE UNIVERSITY

SAVIN, SAMUEL M; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7917017)*; 12 MONTHS $53,925

SAVIN, SAMUEL M; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7917017 A01)*; 12 MONTHS $69,426

OHIO UNIVERSITY

WORSLEY, THOMAS R, *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7919309)*; 12 MONTHS $22,900

OREGON

OREGON STATE UNIVERSITY

NILER, PEARN P; *JOINT US-USSR MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE): A MOORED ARRAY FOR THE STUDY OF LOW-FREQUENCY OCEANIC VARIABILITY IN THE ATLANTIC NORTH EQUATORIAL CURRENT ETC., (OCE-7622515 A02)*; 6 MONTHS $9,810

HUTSON, WILLIAM H; *CLIMATE, LONG-RANGE INVESTIGATION, MAPPING AND PREDICTION (CLIMAP): GLOBAL PALEO-OCEANOGRAPHIC STUDIES OF LATE QUATERNARY OCEAN CIRCULATION AND CLIMATE (OCE-7723162 A02)*; 12 MONTHS $58,900

DYMOND, JACK R; *HYDROTHERMAL PROCESSES ON THE GALAPAGOS RIFT (OCE-7723978 A02)*; 6 MONTHS $15,105

ALLEN, JOHN S; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): THEORETICAL STUDIES AND THE DYNAMICAL INTERPRETATION OF FLOW FIELD OBSERVATIONS (CUEA COMPONENT 9) (OCE-7903380 A02)*; 3 MONTHS $17,700

HUYER, ADRIANA; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): MESOSCALE HYDROGRAPHY (CUEA COMPONENT 33) (OCE-7903391 A01)*; 3 MONTHS $19,500

SMITH, ROBERT L; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): THE MESOSCALE CIRCULATION IN COASTAL UPWELLING SYSTEMS (CUEA COMPONENT 2) (OCE-7903382 A02)*; 3 MONTHS $44,100

PILLSBURY, R D; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): A STUDY OF THE DYNAMICS AND LONG-TERM VARIABILITY OF THE ANTARCTIC CIRCUMPOLAR CURRENT (OCE-7823579 A01)*; 12 MONTHS $334,492

SCHRADER, HANS J; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: OREGON STATE UNIVERSITY (OCE-7825443 A01*)*; 12 MONTHS $9,345

DYMOND, JACK R; *AN EVALUATION OF PARTICULATE FLUX TO THE SEAFLOOR AND ITS IMPORTANCE TO FERROMANGANESE NODULE GENESIS (OCE-7909427 A01)*; $42,152

MILLER, CHARLES B; *PRODUCTION CONTROL MECHANISMS OF THE SUBARCTIC PACIFIC PELAGIC ECOSYSTEM (OCE-7918687*)*; 12 MONTHS $93,609

RICHMAN, JAMES G; *LOW-FREQUENCY ZONAL VARIABILITY OF CURRENTS AND TEMPERATURE AT THE EQUATOR (OCE-7911820)*; 36 MONTHS $355,136

SMALL, LAWRENCE F; *FLUXES OF MATERIALS VIA FRESHLY PRODUCED (SOURCE TERM) PARTICLES (OCE-7923921)*; 36 MONTHS $218,985

DESZOEKE, ROLAND A; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): THEORETICAL STUDIES OF BAROCLINIC EDDY DYNAMICS IN THE SOUTHERN OCEAN (OCE-7924338)*; 12 MONTHS $40,000

BIBEE, L DALE; *SEISMIC REFRACTION STUDIES IN THE MARIANA TRANSECT (OCE-8001479)*; 12 MONTHS $38,901

ALLEN, JOHN S; *COASTAL OCEAN DYNAMICS EXPERIMENT (CODE): DYNAMICAL INTERPRETATION OF OBSERVATIONS AND COLLECTION OF COASTAL SEA LEVEL AND WIND DATA (OCE-8014939)*; 4 MONTHS $11,000

ALLEN, JOHN S; *COASTAL OCEAN DYNAMICS EXPERIMENT (CODE): DYNAMICAL INTERPRETATION OF OBSERVATIONS AND COLLECTION OF COASTAL SEA LEVEL AND WIND DATA (OCE-8014339 A01)*; 12 MONTHS $60,151

HUYER, ADRIANA; *COASTAL OCEAN DYNAMICS EXPERIMENT (CODE): SHIPBOARD HYDROGRAPHY (OCE-8014943)*; 4 MONTHS $81,280

RHODE ISLAND

BROWN UNIVERSITY

IMBRIE, JOHN; *CLIMATE, LONG-RANGE INVESTIGATIONS, MAPPING AND PREDICTION (CLIMAP): GLOBAL PALEO-OCEANOGRAPHIC STUDIES OF LATE QUATERNARY OCEAN CIRCULATION AND CLIMATE (OCE-7722888 A02)*; 12 MONTHS $139,829

PRELL, WARREN L; *CLIMATE, LONG-RANGE INVESTIGATION, MAPPING, AND PREDICATION (CLIMAP): GLOBAL PALEO-OCEANOGRAPHIC STUDIES OF LATE QUATERNARY OCEAN CIRCULATION AND CLIMATE (OCE-7722888 A03)*; $7,000

IMBRIE, JOHN, AND PRELL, WARREN L; *MAPPING SPECTRAL VARIATIONS IN GLOBAL CLIMATE OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR (ATM-7825629 A01*)*; 12 MONTHS $58,000

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER; *INTERNATIONAL TRAVEL FUNDS FOR FOREIGN SCIENTISTS TO ATTEND THE WINTER 1980 GORDON RESEARCH CONFERENCE ON CHEMICAL OCEANOGRAPHY (OCE-7909345*)*; 12 MONTHS $8,165

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

MOORE, THEODORE C; *CLIMATE, LONG-RANGE INVESTIGATION, MAPPING AND PREDICTION (CLIMAP): GLOBAL PALEO-OCEANOGRAPHIC STUDIES OF LATE QUATERNARY OCEAN CIRCULATION AND CLIMATE (OCE-7723472 A02)*; 12 MONTHS $72,300

ROSSBY, H, AND PRICE, JAMES F; *LAGRANGIAN OBSERVATIONS OF OCEAN CIRCULATION IN THE NORTH ATLANTIC SUBTROPICAL GYRE (OCE-7818662 A02)*; 12 MONTHS $219,400

SILVA, ARMAND J, AND DRISCOLL, ALAN H; *MARINE SEDIMENTS: ENGINEERING DESIGN FOR A LONG CORING CAPABILITY (OCE-7824975 A01*)*; 12 MONTHS $50,000

MOORE, THEODORE C, AND PISIAS, NICKLAS; *MAPPING SPECTRAL VARIATIONS IN GLOBAL CLIMATE OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR (ATM-7825304 A01*)*; 12 MONTHS $25,000

DAUPHIN, J; *STUDIES OF PROCESSES CONTROLLING THE COMPOSITION AND DISTRIBUTION OF DEEP-SEA FERROMANGANESE NODULES - MANOP COORDINATION AND TRAVEL (OCE-7827014 A01)*; 12 MONTHS $178,274

MOORE, THEODORE C, KENNETT, JAMES P, AND BENDER, MICHAEL L; *CENOZOIC PALEOCEANOGRAPHY (CENOP) (OCE-7914594)*; 12 MONTHS $209,855

MOORE, THEODORE C, KENNETT, JAMES P, AND BENDER, MICHAEL L; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7914594 A01)*; 12 MONTHS $213,885

DUCE, ROBERT A; *SEA-AIR EXCHANGE PROJECT (SEAREX) - MANAGEMENT AND FIELD SUPPORT PROGRAM (OCE-7917877 A01)*; 6 MONTHS $189,985

ROSSBY, H; *THE DEEP DRIFTER-A SIMPLE TOOL TO DETERMINE AVERAGE OCEAN CURRENTS (OCE-8010839*)*; 24 MONTHS $29,895

UNIVERSITY OF RHODE ISLAND

DRISCOLL, ALAN H; *GEOLOGICAL SAMPLES LABORATORY, CURATORIAL SUPPORT (OCE-7910443*)*; 16 MONTHS $17,562

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

MOORE, WILLARD S; *RADIOCHEMICAL STUDIES OF MANGANESE NODULE DEPOSITION PROCESSES (OCE-7826346 A01)*; 12 MONTHS $47,000

COULL, BRUCE C; *LONG-TERM VARIABILITY, TIDAL RESUSPENSION AND FOOD OF MEIOBENTHIC POPULATIONS (OCE-8007968*)*; 12 MONTHS $65,864

TEXAS

TEXAS A & M UNIVERSITY

NOWLIN, WORTH D; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): CENTRAL ADMINISTRATION, COORDINATION AND PLANNING (OCE-7722850 A02)*; 12 MONTHS $125,300

NEFF, JERRY M; *POLLUTANT RESPONSES IN MARINE ANIMALS (PRIMA) - DEVELOPMENT OF DIAGNOSTIC BIOCHEMICAL INDICES OF EARLY POLLUTANT STRESS IN MARINE ANIMALS (OCE-7724551 A02)*; 12 MONTHS $92,995

GIAM, CHOO SENG; *POLLUTANT RESPONSES IN MARINE ANIMALS (PRIMA) - ANALYTICAL CHEMISTRY (OCE-7725663 A02)*; 12 MONTHS $107,770

GIAM, CHOO SENG; *POLLUTANT RESPONSES IN MARINE ANIMALS (PRIMA) - MANAGEMENT (OCE-7803023 A03)*; 12 MONTHS $103,297

NOWLIN, WORTH D; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): CHEMICAL AND PHYSICAL OCEANOGRAPHY OF THE ANTARCTIC CIRCUMPOLAR CURRENT AND FRONTAL ZONES IN THE REGION OF DRAKE PASSAGE (OCE-7821593 A01)*; 12 MONTHS $301,000

VASTANO, ANDREW C; *NORTH PACIFIC EXPERIMENT (NORPAX): TRAJECTORY AND TEMPERATURE ANALYSES OF SATELLITE TRACKED BUOY OBSERVATIONS IN THE NORTH PACIFIC (OCE-7921571)*; 12 MONTHS $14,956

UNIV OF TEXAS AT AUSTIN-MARINE SCIENCE INSTITUTE AT PORT ARANSAS

PARKER, PATRICK L, AND SCALAN, RICHARD S; *SEAGRASS ECOSYSTEM STUDY (SEAGRASS III): CHEMICAL AND ISOTOPE GRADIENTS (OCE-7727009 A02)*; 12 MONTHS $57,800

PHILLIPS, JOSEPH D, MC COWAN, DAVID W, AND NORTON, IAN; *LARGE APERTURE SEISMIC EXPERIMENT (LASE) (OCE-8001739*)*; 12 MONTHS $81,200

UNIV OF TEXAS AT AUSTIN

MCMILLAN, CALVIN; *SEAGRASS ECOSYSTEM STUDY (SEAGRASS III): ADAPTIVE STRATEGIES OF SEAGRASS (OCE-7726399 A02)*; 12 MONTHS $67,300

VIRGINIA

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

KAULUM, KEITH W; *SUPPORT FOR THE SECRETARIAT OF THE INTERNATIONAL ASSOCIATION FOR THE PHYSICAL SCIENCES OF THE OCEAN (IAPSO) (OCE-8011218)*; 12 MONTHS $8,400

OLD DOMINION UNIVERSITY

JOHNSON, RONALD E; *IPA MOBILITY ASSIGNMENT (RONALD E. JOHNSON) (OCE-8020235)*; 13 MONTHS $45,000

UNIVERSITY OF VIRGINIA

ZIEMAN, JOSEPH C; *SEAGRASS ECOSYSTEM STUDY (SEAGRASS III): CONSUMER FUNCTION, INTERACTIONS AND DYNAMICS (OCE-7727051 A02)*; 12 MONTHS $224,400

WASHINGTON

ENVIRONMENTAL RESEARCH LABORATORIES-PACIFIC MARINE ENVIRONMENTAL LABORATORY

HALPERN, DAVID; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): NEAR SURFACE CIRCULATION STUDIES IN A COASTAL UPWELLING ENVIRONMENT (CUEA: COMPONENT 3) (OCE-7804823 A02)*; 12 MONTHS $8,600

SEATTLE PACIFIC UNIVERSITY

PHILLIPS, RONALD C; *SEAGRASS ECOSYSTEM STUDY (SEAGRASS III): ENVIRONMENTAL CONTROLS OF PLANT GROWTH PATTERNS (OCE-7725559 A02)*; 12 MONTHS $50,000

UNIVERSITY OF WASHINGTON

BAKER, D J. AND WEARN, RICHARD B; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): TRANSPORT MEASUREMENTS OF THE ANTARCTIC CIRCUMPOLAR CURRENT (OCE-7723444 A03)*; 12 MONTHS $128,000

CODISPOTI, LOUIS A; *COASTAL UPWELLING ECOSYSTEM ANALYSIS (CUEA): MESOSCALE HYDROGRAPHY (CUEA COMPONENT 32) (OCE-7727128 A02)*; 3 MONTHS $22,500

MURRAY, JAMES W; *AN IN SITU ADSORPTION EXPERIMENT (OCE-7824334 A01)*; 12 MONTHS $31,000

EMERSON, STEVEN R; *DIAGENESIS AND DIFFUSION IN INTERSTITIAL WATERS (OCE-7825280 A01)*; 12 MONTHS $56,049

HOLLOWAY, GREG, *JOINT U.S.-U.S.S.R. MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE): STATISTICAL DYNAMICS OF OCEAN EDDIES, CIRCULATION, AND MIXING (OCE-7925646)*; 24 MONTHS $99,674

TAFT, BRUCE A, AND MCWILLIAMS, JAMES C; *JOINT U.S.-U.S.S.R. MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE): ANALYSIS AND INTERPRETATION OF DENSITY MEASUREMENTS FROM A LOCAL DYNAMICS EXPERIMENT (OCE-7923951)*; 12 MONTHS $203,700

RATTRAY, MAURICE; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): DIAGNOSTIC DETERMINATION OF THE LOW-FREQUENCY CURRENTS IN THE PACIFIC SECTOR OF THE SOUTHERN OCEAN (OCE-7924318)*; 12 MONTHS $40,200

CREAGER, JOE S, AND MC MANUS, DEAN A; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: UNIVERSITY OF WASHINGTON (OCE-7924398*)*; 12 MONTHS $10,835

SANFORD, THOMAS B; *JOINT U.S.-USSR MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE): A STUDY OF THE VERTICAL STRUCTURE AND ENERGY OF MID-OCE EDDIES USING ELECTROMAGNETIC & DOPPLER VELOCITY & DENSITY PROFILER (OCE-8000020)*; 12 MONTHS $130,600

SMITH, J D; *THEORETICAL INVESTIGATIONS OF CONTINENTAL SHELF SEDIMENT TRANSPORT MODELING (OCE-8001712*)*; 24 MONTHS $142,990

OCEAN DRILLING PROGRAMS

CALIFORNIA

SANTA FE ENGINEERING SERVICE CO

SPRINGETT, CHARLES N; *PROGRAM ALTERNATIVES (ODP-7926019 003)*; $50,926

SPRINGETT, CHARLES N; *SYSTEMS INTEGRATION LIAISON (ODP-7926019 004)*; $166,837

SPRINGETT, CHARLES N; *VESSEL BASELINE DEVELOPMENT AND COSTS (ODP-7926019 005)*; 12 MONTHS $193,950

SPRINGETT, CHARLES N; *OPERATING COST AND PRODUCTIVITY ANALYSIS (ODP-7926019 006)*; 12 MONTHS $145,630

SPRINGETT, CHARLES N; *SEAFLOOR EQUIPMENT AND WELL CONTROL APPRAISAL, TASK 7 (ODP-7926019 007)*; 11 MONTHS $357,036

SPRINGETT, CHARLES N; *RISER CONCEPTUAL DESIGN, COST ESTIMATE AND FEASIBILITY ASSESSMENT, TASK 8 (ODP-7926019 008)*; 11 MONTHS $522,594

SPRINGETT, CHARLES N; *STATIONKEEPING ANALYSIS-TASK 9 (ODP-7926019 009)*; 6 MONTHS $158,624

SPRINGETT, CHARLES N; *MODEL AND FULL SCALE TESTS, TASK 10 (ODP-7926019 010)*; 16 MONTHS $285,239

SPRINGETT, CHARLES N; *COST ESTIMATES AND TECHNICAL DEVELOPMENT, PLANNING, MONITORING AND EVALUATION, TASK 11 (ODP-7926019 011)*; 11 MONTHS $127,418

SPRINGETT, CHARLES N; *FAILURE RISK ANALYSIS AND REPAIRABILITY AND MAINTAINABILITY ANALYSIS FOR OMD PROGRAM, TASK 12 (ODP-7926019 012)*; 6 MONTHS $175,032

SPRINGETT, CHARLES N; *PROVISION OF TECHNICAL ADVICE DURING PREPARATION FOR CONVERSION OF GLOMAR EXPLORER TO A DEEP OCEAN DRILLING VESSEL AND FOUNDATION EVALUATION OF PROPOSALS RECEIVED IN RESPONSE, ETC (ODP-7927292 A01)*; $185,101

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

SAXON, DAVID S; *DRILLING OF SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEANS AND ADJACENT SEAS (ODP-8600025 A76)*; $3,000,000

SAXON, DAVID S; *DRILLING OF SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEANS AND ADJACENT SEAS (ODP-8600025 A77)*; $3,000,000

SAXON, DAVID S; *DRILLING OF SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEANS AND ADJACENT SEAS (ODP-8600025 A78)*; $6,000,000

SAXON, DAVID S; *DRILLING OF SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEANS AND ADJACENT SEAS (ODP-8600025 A80)*; $1,841,358

DISTRICT OF COLUMBIA

DEPARTMENT OF NAVY-NAVSEA SYSTEMS COMMAND

BERNER, JACK; *TECHNICAL SUPPORT FOR CONVERSION OF GLOMAR EXPLORER FOR OCEAN MARGIN DRILLING (ODP-8008478)*; 66 MONTHS $80,000

MARITIME ADMINISTRATION

KYLE, BURTON; *LAUNCH AND ESCORT SERVICE TO GLOMAR EXPLORER (ODP-8021005)*; 36 MONTHS $7,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

BOLLER, JACK W; *ENGINEERING CONSIDERATIONS FOR CONTINUATION OF DEEP SEA DRILLING FOR SCIENTIFIC PURPOSES (ODP-7819682 A03)*; $15,000

PERKINS, DONALD W; *ENGINEERING CONSIDERATIONS FOR CONTINUATION OF DEEP SEA DRILLING FOR SCIENTIFIC PURPOSES (ODP-7819682 A04)*; 12 MONTHS $121,000

MARYLAND

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION-NATIONAL WEATHER SERVICE

ZAVOS, BERNARD; *METEROLOGICAL SUPPORT OF THE DSDP OPERATIONS (ODP-6900428 A13)*; 12 MONTHS $103,300

MASSACHUSETTS

WOODS HOLE OCEANOGRAPHIC INSTITUTION

EWING, JOHN I, SCHOUTEN, HANS, AND PURDY, G M; *LARGE APERTURE SEISMIC EXPERIMENT (LASE) (OCE-7924174*)*; 12 MONTHS $100,000

NEW YORK

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

PITMAN, WALTER C, STOFFA, PAUL L, AND TALWANI, MANIK; *LARGE APERTURE SEISMIC EXPERIMENT (LASE) (OCE-7922884*)*; 12 MONTHS $150,000

JOINT OCEANOGRAPHIC INSTITUTIONS INC

CLOTWORTHY, JOHN H; *SUPPORT OF JOI, INC., OFFICE OF THE JOIDES ADVISORY PROGRAM (ODP-7808082 A03)*; $361,944

CLOTWORTHY, JOHN H; *SUPPORT OF U.S. SITE SURVEY PROGRAM (ODP-7821464 A02)*; $1,000,000

CLOTWORTHY, JOHN H; *SUPPORT OF U.S. SITE SURVEY PROGRAM (ODP-7821464 A03)*; $541,398

CLOTWORTHY, JOHN H; *SCIENTIFIC ADVICE & OVERSIGHT AND U.S. SITE MANAGEMENT FOR OCEAN MARGIN DRILLING (ODP-8000465)*; 12 MONTHS $478,319

CLOTWORTHY, JOHN H; *SCIENTIFIC ADVICE AND OVERSIGHT AND U.S. SITE SURVEY MANAGEMENT FOR OCEAN MARGIN DRILLING (ODP-8000465 A01)*; $328,319

CLOTWORTHY, JOHN H; *SCIENTIFIC ADVICE & OVERSIGHT AND U.S. SITE SURVEY MANAGEMENT FOR OCEAN MARGIN DRILLING (ODP-8000465 A02)*; $10,263

OREGON

OREGON STATE UNIVERSITY

SCHRADER, HANS J; *LAMINATED SEDIMENTS OF THE CENTRAL GULF OF CALIFORNIA: A STUDY OF CLIMATIC AND SEDIMENTOLOGIC INFORMATION PRESERVED OVER THE LAST 150,000 YEARS (ATM-7919458*)*; 12 MONTHS $25,000

TEXAS

DONHAISER MARINE INC

DONHAISER, JOHN N; *EXAMINE THE FEASIBILITY OF CONVERTING AND OPERATING THE M/V GLOMAR EXPLORER AS A DEEP OCEAN DRILLING AND CORING VESSEL (ODP-7918238 A04)*; 6 MONTHS $45,700

UNIV OF TEXAS AT AUSTIN-MARINE SCIENCE INSTITUTE AT PORT ARANSAS

PHILLIPS, JOSEPH D, MC COWAN, DAVID W, AND NORTON, IAN; *LARGE APERTURE SEISMIC EXPERIMENT (LASE) (OCE-8001728*)*; 12 MONTHS $250,000

VIRGINIA

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

WEINBERG, E H; *SUPPORT FOR THE NATIONAL ACADEMY OF ENGINEERING MARINE BOARD (OCE-8006009*)*; 12 MONTHS $2,000

ARCTIC RESEARCH

ALASKA

UNIVERSITY OF ALASKA-FAIRBANKS-GEOPHYSICAL INSTITUTE

OHTAKE, TAKESHI, AND JAYAWEERA, KOLF; *ARCTIC STRATUS CLOUD EXPERIMENT - CLOUD PHYSICS AND MORPHOLOGY (DPP-7720857 A01)*; $15,497

HARRISON, WILLIAM D, AND OSTERKAMP, THOMAS E; *HEAT AND MASS TRANSPORT IN SUBSEA PERMAFROST (DPP-7728451 A02)*; 12 MONTHS $74,893

OSTERKAMP, THOMAS E; *AN INVESTIGATION OF GEOPHYSICAL METHODS FOR DETECTING PERMAFROST, MASSIVE GROUND ICE AND ICE-RICH SOILS (DPP-7827641 A01)*; 12 MONTHS $60,999

HARRISON, WILLIAM D; *MEASUREMENT OF BASAL SLIDING AND OBSERVATION OF BASAL CONDITIONS IN AN ALASKAN SURGE-TYPE GLACIER (DPP-7904190 A01)*; 12 MONTHS $45,105

SHAW, GLENN E; *RADIATIVE EFFECTS OF ARCTIC HAZE (DPP-7919816)*; 12 MONTHS $82,881

BENSON, CARL S; *GLACIER FACIES AND STRUCTURE OF THE NEAR SURFACE LAYERS OF THE GREENLAND ICE SHEET (DPP-7926425)*; 12 MONTHS $57,098

UNIVERSITY OF ALASKA-FAIRBANKS-INSTITUTE OF MARINE SCIENCE

GOERING, JOHN J; *PROCESSES AND RESOURCES OF THE BERING SEA SHELF (PROBES) PHASE II (DPP-7623340 A06*)*; 12 MONTHS $1,455,966

ALEXANDER, VERA D; *NITROGEN CYCLE PROCESS STUDIES IN ARCTIC LAKES AND STREAMS: A COMPONENT OF PROJECT ALPS (ARCTIC LAKE PROCESS STUDIES) (DPP-7900815 A01)*; 12 MONTHS $37,564

UNIVERSITY OF ALASKA-FAIRBANKS

WEST, GEORGE C; *LOGISTIC SUPPORT - TOOLIK LAKE CAMP: A COMPONENT OF PROJECT ALPS (ARCTIC LAKE PROCESS STUDIES) (DPP-7907683 A01)*; 12 MONTHS $93,328

KELLEY, JOHN J, AND GOSINK, THOMAS A; *TRACE GASES IN THE ARCTIC ENVIRONMENT: AIR-SEA-LAND DISTRIBUTION AND EXCHANGE (DPP-8002432)*; 12 MONTHS $41,513

FAY, FRANCIS H; *THE ENERGY COST AND CONTROL OF MOLTING IN BERING SEA HARBOR AND SPOTTED SEALS (DPP-8006957)*; 12 MONTHS $38,523

LAURSEN, GARY A; *INTERNATIONAL SYMPOSIUM ON ARCTIC MYCOLOGY - I (DPP-8008154)*; 12 MONTHS $8,000

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

KAMB, BARCLAY; *MEASUREMENT OF BASAL SLIDING AND OBSERVATION OF BASAL CONDITIONS IN AN ALASKAN SURGE-TYPE GLACIER (DPP-7902584 A02)*; 12 MONTHS $156,777

STANFORD UNIVERSITY

HELLIWELL, ROBERT A, AND CARPENTER, DONALD L; *ACTIVE AND PASSIVE MAGNETOSPHERIC PROBING AT VLF: A PROGRAM OF DATA ANALYSIS AND ACQUISITION (DPP-7805746 A02)*; 12 MONTHS $140,000

UNIVERSITY OF CALIFORNIA, IRVINE

HUNT, GEORGE L; *THE DISTRIBUTION, ABUNDANCE AND ROLE OF SEABIRDS IN THE SOUTHERN BERING SEA ECOSYSTEM (DPP-7910388 A01)*; 12 MONTHS $48,795

COLORADO

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

WHITE, ROBERT M; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7723757 A64*)*; $32,975

UNIVERSITY OF COLORADO AT BOULDER

ANDREWS, JOHN T, AND MILLER, GIFFORD H; *THE LAST GLACIATION OF SPITSBERGEN AND THE BARENTS SEA: TESTS BASED ON STRATIGRAPHY, AMINO ACID DATING, AND GLACIAL ISOSTATIC RECONSTRUCTIONS (DPP-7826000 A01)*; 12 MONTHS $45,390

RADOK, UWE, AND BARRY, ROGER G; *PHYSICAL CHARACTERISTICS AND MODELLING OF LARGE ICE SHEETS (DPP-7906769)*; 12 MONTHS $122,525

BARRY, ROGER G; *ATMOSPHERE-SEA ICE INTERACTIONS IN THE ARCTIC (DPP-7920853)*; 23 MONTHS $98,218

ANDREWS, JOHN T; *MODERN POLLEN RAIN, TRANSFER FUNCTIONS, AND HOLOCENE PALEOCLIMATE RECONSTRUCTIONS, NORTHERN ALASKA (DPP-7926238)*; 12 MONTHS $40,000

CONNECTICUT

UNIVERSITY OF CONNECTICUT

BLACK, ROBERT F; *LATE QUATERNARY SEA-LEVEL CHANGES AND HISTORY OF ATKA ISLAND, ALEUTIAN ISLANDS, ALASKA (EAR-8004349*)*; 12 MONTHS $5,000

DENMARK

UNIVERSITY OF COPENHAGEN

DANSGAARD, WILLI; *DEEP ICE CORE DRILLING IN GREENLAND, THE GREENLAND ICE SHEET PROGRAM (GISP) (DPP-8004957)*; 12 MONTHS $100,000

DISTRICT OF COLUMBIA

DEPARTMENT OF NAVY

KELLY, THOMAS P; *TECHNICAL SUPPORT FOR POLAR RESEARCH PROGRAMS (DPP-7890114 A02*)*; 12 MONTHS $97,000

NATIONAL ACADEMY OF SCIENCES

DEGOES, LOUIS; *SUPPORT FOR THE POLAR RESEARCH BOARD (DPP-7913076 A01*)*; 12 MONTHS $27,900

HART, PEMBROKE J; *SUPPORT OF THE GEOPHYSICS RESEARCH BOARD (GRB) AND THE COMMITTEE ON SOLAR-TERRESTRIAL RESEARCH (CSTR) (ATM-7914131 A02*)*; 12 MONTHS $5,000

SMITHSONIAN INSTITUTION

LANDRUM, BETTY J; *RECORDING OF DATA AND SORTING OF COLLECTIONS FROM POLAR REGIONS (DPP-7413993 A07*)*; 12 MONTHS $73,230

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

O'BRIEN, W; *CONTROLS OF ARCTIC ZOOPLANKTON PRODUCTION: A COMPONENT OF PROJECT ALPS (ARCTIC LAKE PROCESS STUDIES) (DPP-7828041 A01)*; 12 MONTHS $25,852

MARYLAND

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION-NATIONAL ENVIRONMENTAL SATELLITE SERVICE

LUDWIG, GEORGE H; *SUPPORT FOR THE TIROS-N SATELLITE DATA COLLECTION SYSTEM (ATM-8008813*)*; 12 MONTHS $18,000

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

FLEMING, REX J; *JOINT ONR, NSF, NOAA SUPPORT OF PROPOSAL 'ARCTIC BASIN BUOY PROGRAM' (ATM-8007343*)*; 12 MONTHS $45,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

PONNAMPERUMA, CYRIL; *MICROPALEONTOLOGICAL AND ORGANIC GEOCHEMICAL STUDIES OF THE EARLY PRECAMBRIAN OF GREENLAND (DPP-7900991 A01)*; 12 MONTHS $98,364

ROSENBERG, THEODORE J; *RIOMETRY IN ANTARCTICA AND CONJUGATE REGIONS (DPP-7925014*)*; 48 MONTHS $135,096

ROSENBERG, THEODORE J, AND MATTHEWS, DAVID L; *DATA PROCESSING, ANALYSIS, AND TEST FACILITY FOR GEOPHYSICAL INVESTIGATIONS OF THE IONOSPHERE AND MAGNETOSPHERE (ATM-8002423*)*; 12 MONTHS $10,000

MASSACHUSETTS

MARINE BIOLOGICAL LABORATORY

HOBBIE, JOHN E, AND PETERSON, BRUCE J; *ARCTIC STREAMS AND ARCTIC BACTERIA: A COMPONENT OF PROJECT ALPS (ARCTIC LAKE PROCESS STUDIES) (DPP-7723879 A02)*; 12 MONTHS $42,831

MINNESOTA

UNIVERSITY OF MINNESOTA

CAHILL, LAURENCE J; *MICROPULSATION RESEARCH AT ROBERVAL, QUEBEC, AND AT SIPLE AND SOUTH POLE, ANTARCTICA (DPP-7923294*)*; 12 MONTHS $53,232

MISSOURI

ST LOUIS UNIVERSITY

MITCHELL, BRIAN J; *SEISMICITY AND TECTONICS OF THE EASTERN ARCTIC REGIONS IN AND SURROUNDING SVALBARD (DPP-7927059)*; 12 MONTHS $59,261

VINCENZ, STANISLAW A; *PALEOMAGNETIC INVESTIGATIONS OF SPITSBERGEN, SVALBARD ARCHIPELAGO (DPP-8001945)*; 12 MONTHS $42,544

MONTANA

UNIVERSITY OF MONTANA

QUAMAR, ANTHONY; *A PASSIVE SEISMIC INVESTIGATION OF THE GREENLAND ICE SHEET (DPP-7918003)*; 12 MONTHS $30,265

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

KUIVINEN, KARL C; *COORDINATION OF ICE CORE DRILLING (DPP-7408414 A10*)*; 12 MONTHS $750,000

NEW HAMPSHIRE

DEPARTMENT OF ARMY-COLD REGIONS RESEARCH AND ENGINEERING LAB

KOVACS, AUSTIN; *RADAR SOUNDING OF INTERNAL LAYERS IN THE GREENLAND ICE SHEET (DPP-8000693)*; 12 MONTHS $46,247

NEW YORK

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

HAYS, JAMES D; *MAPPING SPECTRAL VARIATIONS IN GLOBAL CLIMATE OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR-PROJECT SPECMAP (ATM-7835939 A01*)*; 12 MONTHS $50,000

KUKLA, GEORGE J, AND UNTERSTEINER, NORBERT; *CHANGES OF SNOW AND ICE FIELDS IN TIME (ATM-8001470*)*; 12 MONTHS $25,000

STATE UNIVERSITY AT BUFFALO

LANGWAY, CHESTER C; *OPERATION OF THE CENTRAL ICE CORE STORAGE FACILITY AND INFORMATION EXCHANGE (DPP-7508512 A06*)*; 12 MONTHS $40,000

GAYLEY, ROBERT I, AND RAM, MICHAEL; *MICROPARTICLE CONCENTRATIONS IN RECENT POLAR ICE (DPP-7818796 A01)*; 6 MONTHS $19,995

CALKIN, PARKER E; *PAST AND PRESENT HYDROLOGIC REGIMES IN PERMAFROST ENVIRONMENT, ATIGUN PASS, BROOKS RANGE, ALASKA (DPP-7819982 A01)*; 12 MONTHS $115,593

LANGWAY, CHESTER C; *POLAR ICE CORE ANALYSIS PROGRAM (DPP-7927300*)*; 12 MONTHS $125,109

GEBHART, BENJAMIN; *INTERPRETATION OF NORSEX V ARCTIC ICE-PACK MEASUREMENTS (DPP-8009250)*; 12 MONTHS $35,276

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

MOZLEY, SAMUEL C; *LIMITS ON PRODUCTION OF ARCTIC CHIRONOMIDAE: A COMPONENT OF PROJECT ALPS (ARCTIC LAKE PROCESS STUDIES) (DPP-7722935 A02)*; 12 MONTHS $27,500

SAXENA, VINOD K; *THE ARCTIC STRATUS EXPERIMENT: CLOUD-AEROSOL INTERACTIONS (DPP-7922837)*; 24 MONTHS $78,956

OHIO

OHIO STATE UNIVERSITY

WHILLANS, IAN M; *DYNAMICS OF THE SOUTHERN PORTION OF THE GREENLAND ICE SHEET (DPP-8008356)*; 12 MONTHS $150,453

MCKENZIE, GARRY D; *IPA MOBILITY ASSIGNMENT (GARRY D MCKENZIE) (DPP-8020194*)*; 13 MONTHS $40,000

UNIVERSITY OF CINCINNATI

VESTAL, J R; *MICROBIAL DEGRADATION OF ORGANIC COMPOUNDS IN ARCTIC WATERS: A COMPONENT OF PROJECT ALPS (ARCTIC LAKE PROCESS STUDIES) (DPP-7827574 A01)*; 12 MONTHS $15,000

MILLER, MICHAEL C; *ROLE OF ZOOPLANKTON GRAZING IN DETERMINING ALGAL COMPOSITION IN ARCTIC LAKES: A COMPONENT OF PROJECT ALPS (ARCTIC LAKE PROCESS STUDIES) (DPP-7900448 A01)*; 12 MONTHS $22,825

OREGON

OREGON STATE UNIVERSITY

NESHYBA, STEPHEN J; *FIELD STUDIES OF ICEBERG DETERIORATION, MELTING RATE AND ASSOCIATED UPWELLING (DPP-7816543 A01)*; 6 MONTHS $12,706

PENNSYLVANIA

PENNSYLVANIA STATE UNIVERSITY

GOODWIN, CECIL W; *MODELING PHYSICAL AND THERMAL DISTURBANCES IN PERMAFROST TERRAIN OF NORTHERN ALASKA (DPP-7722206 A01)*; 12 MONTHS $68,000

SWITZERLAND

UNIVERSITY OF BERN

OESCHGER, HANS; *RADIOACTIVE ISOTOPE DATING AND OTHER GEOCHEMICAL AND ISOTOPE STUDIES AS PART OF POLAR ICE-DRILLING PROJECTS (DPP-7681496 A02*)*; 12 MONTHS $32,650

UTAH

UTAH STATE UNIVERSITY

STILES, GARDINER S, AND DOUPNIK, JOE R; *DIGITAL IONOSONDE STUDIES OF THE IONOSPHERE AT SIPLE STATION, ANTARCTICA, AND ROBERVAL, QUEBEC, CANADA (DPP-7722170 A03*)*; 12 MONTHS $63,778

VERMONT

MIDDLEBURY COLLEGE

GLASSLEY, WILLIAM E; *RELATIVE SIGNIFICANCE OF WATER, CARBON DIOXIDE, FLUORINE, SULFUR, AND OXYGEN IN THE DEVELOPMENT OF THE AMPHIBOLITE FACIES TO GRANULATE FACIES OF CENTRAL WEST GREENLAND (DPP-7833905 A01)*; 12 MONTHS $29,505

WASHINGTON

UNIVERSITY OF WASHINGTON

LACHAPELLE, EDWARD R; *BLUE GLACIER PROJECT (DPP-7908586 A01)*; 12 MONTHS $19,158

RAYMOND, CHARLES F, AND MALONE, STEPHEN D; *RELATIONSHIP OF GLACIER BASAL CONDITIONS TO SURFACE VELOCITY, STRAIN RATE AND SEISMIC ACTIVITY (DPP-7909342 A01)*; 12 MONTHS $41,965

COACHMAN, LAWRENCE K; *AN EXPERIMENTAL STUDY OF FINESTRUCTURE (DPP-7916276)*; 24 MONTHS $174,751

BRUBAKER, LINDA B; *POLLEN EVIDENCE OF LATE-GLACIAL SPRUCE POPULATIONS IN CENTRAL ALASKA (DPP-8001150)*; 11 MONTHS $58,604

UGOLINI, FIORENZO C; *DYNAMICS OF SOIL FORMING PROCESSES IN ARCTIC ALASKA (DPP-8006795)*; 12 MONTHS $60,000

AAGAARD, KNUT; *MEASUREMENTS IN THE WEST SPITSBERGEN CURRENT (DPP-8009804)*; 16 MONTHS $41,450

LACHAPELLE, EDWARD R; *DOCTORAL DISSERTATION RESEARCH IN GEOPHYSICS (DPP-8017750)*; 24 MONTHS $7,867

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

CRADDOCK, CAMPBELL J; *STRUCTURAL STUDIES IN WESTERN SVALBARD (DPP-7903561 A01)*; 12 MONTHS $57,567

CLARK, DAVID L, AND KITCHELL, JENNIFER A; *ARCTIC OCEAN PALEOCLIMATE AND PALEOPRODUCTIVITY STUDIES (DPP-7910351)*; 24 MONTHS $88,018

SOLAR ECLIPSE

COLORADO

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

WHITE, ROBERT M; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7733757 A03*)*; 12 MONTHS $10,000

ANTARCTIC RESEARCH

ALASKA

UNIVERSITY OF ALASKA-FAIRBANKS-GEOPHYSICAL INSTITUTE

WENDLER, GERD; *KATABATIC WIND IN ANTARCTICA (DPP-7726379 A02)*; 12 MONTHS $59,700

AKASOFU, SYUN-ICHI; *A STUDY OF THE MIDDAY AURORAS AT THE SOUTH POLE STATION (DPP-7820620 A01)*; 12 MONTHS $29,425

SHAW, GLENN E, *SUBMICRON PARTICLES IN ANTARCTICA (DPP-7920006)*; 12 MONTHS $53,380

ARIZONA

ARIZONA STATE UNIVERSITY

STUMP, EDMUND; *FIELD INVESTIGATION OF THE LAGORCE MOUNTAINS AND DATA REDUCTION ON ROCKS FROM THE LEVERETT AND SCOTT GLACIERS, ANTARCTICA (DPP-7816624 A01)*; 6 MONTHS $11,340

CALIFORNIA

GEOLOGICAL SURVEY-GEOLOGICAL SURVEY-MENLO PARK

FORD, ARTHUR B; *GEOLOGICAL INVESTIGATION OF THE DUFEK INTRUSION, ANTARCTICA (DPP-7722745 A03)*; 12 MONTHS $26,400

HOLMES AND NARVER INC

JOHNSON, JAMES R, *SPECIALIZED SUPPORT ACTIVITIES RELATED TO THE U.S PROGRAM IN ANTARCTICA (DPP-7907187 A27)*; 6 MONTHS $3,000,000

JOHNSON, JAMES R; *SPECIALIZED SUPPORT ACTIVITIES RELATED TO THE U. S. PROGRAM IN ANTARCTICA (DPP-7907187 A29)*; 6 MONTHS $1,527,697

JOHNSON, JAMES R; *R/V HERO/PALMER STATION RESEARCH SYSTEM (DPP-7403237 A24)*; 6 MONTHS $1,035,000

JOHNSON, JAMES R; *R/V HERO/PALMER STATION RESEARCH SYSTEM (DPP-7403237 A25*)*; 3 MONTHS $202,194

HUBBS-SEA WORLD RESEARCH INSTITUTE

EVANS, WILLIAM E, AND JEHL, JOSEPH R; *DISTRIBUTION AND ECOLOGY OF TWO GENERA OF SMALL ODONTOCETE CETACEANS (ORCINUS AND GLOBICEPHALA) IN THE ANTARCTIC AND ADJACENT WATERS (DPP-7721646 A02)*; 12 MONTHS $33,845

POINT REYES BIRD OBSERVATORY

AINLEY, DAVID G; *POPULATION BIOLOGY OF SOUTH POLAR SKUAS (DPP-7930794)*; 12 MONTHS $32,754

STANFORD UNIVERSITY

PETERSON, ALLEN M; *AUTOMATIC WEATHER STATIONS FOR ANTARCTIC METEOROLOGICAL RESEARCH (DPP-7900448 A01)*; $103,200

CARPENTER, DONALD L, AND KATSUFRAKIS, JOHN P; *VLF OBSERVATIONS AT SOUTH POLE (DPP-7923171)*; 36 MONTHS $10a,892

CARPENTER, DONALD L, AND KATSUFRAKIS, JOHN P; *VERY LOW FREQUENCY PROBING OF THE MAGNETOSPHERE FROM PALMER STATION, ANTARCTICA (DPP-7916600)*; 12 MONTHS $106,452

UNIVERSITY OF CALIFORNIA, DAVIS

CARROLL, JOHN J; *INVESTIGATION OF ATMOSPHERIC PROCESSES AND ENERGY TRANSFERS AT SOUTH POLE, ANTARCTICA (DPP-7719363 A06)*; 12 MONTHS $50,897

UNIVERSITY OF CALIFORNIA, LOS ANGELES

KNOPOFF, LEON; *LONG PERIOD GRAVITY AND SEISMIC OBSERVATIONS AT THE SOUTH POLE (DPP-7911397)*; 12 MONTHS $75,415

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

SHOR, GEORGE G; *SHIP OPERATIONS SUPPORT (OCE-7733858 A08*)*; 12 MONTHS $392,000

HOLM-HANSEN, OSMUND; *A MULTIDISCIPLINARY STUDY OF THE EASTERN SCOTIA SEA (DPP-7911295)*; 12 MONTHS $429,552

KOOYMAN, GERALD L; *BIOLOGY OF WEDDELL SEALS DURING THE AUSTRAL WINTER (DPP-7913643)*; 12 MONTHS $95,297

DELACA, TED E; *PHYSIOLOGICAL ECOLOGY OF BENTHIC SHALLOW WATER FORAMINIFERA IN MC MURDO SOUND, ANTARCTICA: A MODEL FOR EVALUATING THE ECOLOGICAL SIGNIFICANCE OF FORAMINIFERA IN THE DEEP SEA (DPP-8001437)*; 12 MONTHS $96,227

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

FOSTER, THEODORE D; *ANTARCTIC PHYSICAL OCEANOGRAPHIC STUDIES (DPP-7920184)*; 12 MONTHS $114,569

UNIVERSITY OF SOUTHERN CALIFORNIA

SULLIVAN, CORNELIUS W; *A STUDY OF WINTER SURVIVAL IN POLAR SEA ICE DIATOMS (DPP-7909602)*; 12 MONTHS $28,929

WOODWARD-CLYDE CONSULTANTS INC

HART, PAUL D; *WINTERIZATION OF USNS ELTANIN AND EXTENSION OF MONTHLY INSPECTIONS (DPP-8008542)*; 6 MONTHS $97,465

HART, PAUL D; *WINTERIZATION OF USNS ELTANIN AND EXTENSION OF MONTHLY INSPECTIONS (DPP-8008542 A01)*; 6 MONTHS $1,355

COLORADO

UNIVERSITY OF DENVER

MURCRAY, DAVID G; *MEASUREMENTS OF ATMOSPHERIC CONSTITUENTS AT THE SOUTH POLE (DPP-7908187)*; 12 MONTHS $56,692

MURCRAY, DAVID G; *ATMOSPHERIC EMISSION MEASUREMENTS FROM CALIFORNIA TO THE SOUTH POLE (DPP-7924307)*; 12 MONTHS $46,214

DELAWARE

FRANKLIN INSTITUTE-BARTOL RESEARCH FOUNDATION

POMERANTZ, MARTIN A; *INVESTIGATIONS OF COSMIC RAY INTENSITY VARIATIONS IN ANTARCTICA (DPP-7923218)*; 12 MONTHS $119,900

DISTRICT OF COLUMBIA

DEPARTMENT OF DEFENSE

WESTBROOK, DARREL E; *LOGISTICS SUPPORT OF THE U.S. PROGRAM IN ANTARCTICA (DPP-7610686 A21)*; 6 MONTHS $25,000,000

WESTBROOK, DARREL E; *LOGISTIC SUPPORT OF THE U. S. PROGRAM IN ANTARCTICA (DPP-7610686 A23)*; 6 MONTHS $7,031,215

PEARIGEN, JARE M; *LOGISTIC SUPPORT OF THE U.S. PROGRAM IN ANTARCTICA (DPP-7610686 A24)*; 6 MONTHS $2,491,000

PEARIGEN, JARE M; *LOGISTIC SUPPORT OF THE U.S. PROGRAM IN ANTARCTICA (DPP-7610686 A25)*; 3 MONTHS $297,080

KUWAMURA, FRANK K; *STANDARD GEOGRAPHIC NOMENCLATURE IN THE ANTARCTIC FOR UNITED STATES USE (DPP-7901112 A01)*; 9 MONTHS $13,600

DEPARTMENT OF NAVY

KELLY, THOMAS P; *TECHNICAL SUPPORT FOR POLAR RESEARCH PROGRAMS (DPP-7810114 A02)*; 12 MONTHS $100,000

DEPARTMENT OF TRANSPORTATION-U S COAST GUARD

COSTELLO, JOHN D; *SERVICES OF USCG ICEBREAKERS, ANTARCTIC SEASON 1979-80 (DPP-7701365 A02)*; 6 MONTHS $1,333,525

INDIVIDUAL AWARD

MIOTKE, FRANZ DIE; *LANDFORMS AND LANDFORMING PROCESSES IN THE DRY VALLEYS, ANTARCTICA (DPP-7921633)*; 18 MONTHS $1

LIBRARY OF CONGRESS

THURONYI, GEZA T; *ABSTRACTING AND INDEXING SERVICE FOR CURRENT ANTARCTIC LITERATURE (DPP-7901013 A09)*; 12 MONTHS $147,493

NATIONAL ACADEMY OF SCIENCES

DEGOES, LOUIS; *SUPPORT FOR THE POLAR RESEARCH BOARD (DPP-7919076 A01)*; 12 MONTHS $192,109

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

DEGOES, LOUIS; *U.S. PARTICIPATION IN INTERNATIONAL SCIENTIFIC AND PLANNING MEETINGS RELATED TO THE PROGRAM 'BIOLOGICAL INVESTIGATIONS OF MARINE ANTARCTIC SYSTEMS AND STOCKS (BIOMASS)' (DPP-7907065)*; 12 MONTHS $38,850

DEGOES, LOUIS; *AN EVALUATION OF BIOLOGICAL OCEANOGRAPHIC RESEARCH IN THE ANTARCTIC (DPP-7927061 A01)*; 6 MONTHS $20,000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

CALLAHAN, MARTIN; *SUPPORT OF THE LUNAR AND PLANETARY INSTITUTE (DPP-7919075)*; 12 MONTHS $30,000

SMITHSONIAN INSTITUTION

LANDRUM, BETTY J; *RECORDING OF DATA AND SORTING OF COLLECTIONS FROM POLAR REGIONS (DPP-7415993 A07)*; 12 MONTHS $73,239

LANDRUM, BETTY J; *COOPERATIVE SYSTEMATICS AND ANALYSES OF POLAR BIOLOGICAL MATERIALS (DPP-7908635)*; 12 MONTHS $101,139

FLORIDA

FLORIDA STATE UNIVERSITY

DEVORE, GEORGE W; *CURATORSHIP OF ANTARCTIC CORE COLLECTIONS (DPP-7518704 A04)*; 12 MONTHS $144,944

FRIEDMANN, E I; *ENDOLITHIC MICROORGANISMS IN THE DRY VALLEYS AND DUFEK MASSIF: PRIMARY PRODUCERS IN THE ANTARCTIC DESERT ECOSYSTEM (DPP-7721858 A02)*; 12 MONTHS $25,358

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

ÖSTLUND, H G, AND MASON, ALLEN S; *ANTARCTIC TRITIUM (DPP-7908769)*; 12 MONTHS $29,233

GEORGIA

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

HANSON, ROGER B; *BACTERIAL PLANKTON DYNAMICS AND ADAPTATION OF ANTARCTIC WATERS (DPP-7821507 A01)*; 12 MONTHS $73,783

UNIVERSITY OF GEORGIA

LEDBETTER, MICHAEL T; *EXTENT AND TIMING OF BOTTOM CURRENT SCOUR IN THE SOUTHERN OCEAN (DPP-7905111 A01)*; 12 MONTHS $35,009

ILLINOIS

DEPAUL UNIVERSITY

DENYS, CHARLENE; *BIOLOGICAL INVESTIGATION OF ANTARCTIC KRILL (EUPHAUSIA SUPERBA) (DPP-7623437 A05)*; $39,015

NORTHERN ILLINOIS UNIVERSITY

MC GINNIS, LYLE D; *GRAVITY STUDIES IN THE TRANSANTARCTIC MOUNTAINS, ANTARCTICA (DPP-7821112 A02)*; 12 MONTHS $61,000

LING, HSIN-YI; *CENOZOIC EMBAYMENT HISTORY OF ROSS ICE SHELF REGION (DPP-7911304)*; 12 MONTHS $18,050

UNIVERSITY OF ILLINOIS AT URBANA

DEVRIES, ARTHUR L; *THE EFFECT OF TEMPERATURE ON LEVELS OF GLYCOPROTEIN ANTIFREEZE IN ANTARCTIC FISHES INHABITING DIFFERENT THERMAL ENVIRONMENTS (DPP-7823462 A01)*; 12 MONTHS $61,349

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

ZELLER, EDWARD J, AND DRESCHHOFF, GISELA A; *RESOURCE AND RADIOACTIVITY SURVEY IN ANTARCTICA BY AIRBORNE GAMMA-RAY SPECTROMETRY (DPP-7721504 A02)*; 12 MONTHS $85,914

WICHITA STATE UNIVERSITY

TASCH, PAUL; *SYSTEMATICS OF ANTARCTIC AND OTHER GONDWANA FOSSIL CONCHOSTRACA (DPP-7720490 A02)*; 12 MONTHS $7,778

MAINE

MOUNT DESERT ISLAND BIOLOGICAL LABORATORY

BUTLER, RONALD G, AND TRIVELPIECE, WAYNE; *COMPARATIVE BEHAVIORAL AND ECOLOGICAL STUDIES OF PYGOSCELID PENGUINS IN ADMIRALTY BAY (DPP-7920424)*; 12 MONTHS $40,270

UNIVERSITY OF MAINE, ORONO

BORNS, HAROLD W; *DOCUMENTATION OF THE ROSS SEA GLACIATIONS: EVENTS IN WRIGHT AND VICTORIA VALLEYS, ANTARCTICA (DPP-7823460 A02)*; 5 MONTHS $11,964

HUGHES, TERENCE J, SCHMIDT, WILLIAM F, AND FASTOOK, JAMES L; *A STUDY OF THE INTERACTION OF THE ROSS ICE SHELF AND BYRD GLACIER, ANTARCTICA (DPP-7722204 A01)*; 12 MONTHS $96,390

DENTON, GEORGE H; *LATE CENOZOIC GLACIAL HISTORY OF ANTARCTICA: ELLSWORTH MOUNTAINS AND MCMURDO SOUND REGION (DPP-7918582 A01)*; 14 MONTHS $89,112

KELLOGG, THOMAS B, AND KELLOGG, DAVIDA E; *QUANTITATIVE PALEOCLIMATIC ANALYSIS OF ROSS SEA CONTINENTAL SHELF SEDIMENTS (DPP-7920112)*; 12 MONTHS $39,942

DEARBORN, JOHN H; *FOODS AND FEEDING HABITS OF ANTARCTIC ASTEROIDAN ECHINODERMS (DPP-7921537)*; 12 MONTHS $70,214

MARYLAND

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION-NATIONAL ENVIRONMENTAL SATELLITE SERVICE

LUDWIG, GEORGE H; *SUPPORT FOR THE TIROS-N SATELLITE DATA COLLECTION SYSTEM (ATM-8008813*)*; 12 MONTHS $7,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

ROSENBERG, THEODORE J; *RIOMETRY IN ANTARCTICA AND CONJUGATE REGIONS (DPP-7925014*)*; 48 MONTHS $100,000

ROSENBERG, THEODORE J; *NATURALLY-AND ARTIFICIALLY-STIMULATED ELECTRON PRECIPITATION NEAR THE PLASMAPAUSE (DPP-8011901)*; 12 MONTHS $62,457

ROSENBERG, THEODORE J, *INVESTIGATION OF SIGNAL ANOMALIES IN SUBIONOSPHERIC VLF RADIOWAVE PROPAGATION USING DATA FROM U. S. ANTARCTIC STATIONS (DPP-8012941)*; 12 MONTHS $10,000

MATTHEWS, DAVID L; *ROCKET INVESTIGATION OF ELECTRON PRECIPITATION TRIGGERED BY VLF EMISSIONS (DPP-8013722)*; 12 MONTHS $88,340

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SCLATER, JOHN G; *GEOPHYSICAL RESEARCH IN THE SOUTHERN OCEANS BETWEEN SOUTH AMERICA, AFRICA AND ANTARCTICA (DPP-7919079 A01)*; 12 MONTHS $92,961

SMITHSONIAN INSTITUTION-ASTROPHYSICAL OBSERVATORY

FIREMAN, EDWARD L; *COMPOSITION AND CARBON-14 CONTENT OF GAS IN ICE AT THE ANTARCTIC METEORITE SITES* (DPP-7905720 A01; 6 MONTHS $28,543

WOODS HOLE OCEANOGRAPHIC INSTITUTION

DICK, HENRY J; *PETROLOGY AND GEOCHEMISTRY OF THE CRUST AND UPPER MANTLE OF THE SOUTHERN CIRCUMPOLAR OCEAN BETWEEN 30 DEGREES W AND 30 DEGREES E* (DPP-7721800 A01; 12 MONTHS $71,800

DICK, HENRY J; *PETROLOGY AND GEOCHEMISTRY OF THE CRUST AND UPPER MANTLE OF THE SOUTHERN CIRCUMPOLAR OCEAN BETWEEN 30 DEGREES W AND 30 DEGREES E* (DPP-7721800 A03; $46,324

CORLISS, BRUCE H; *QUATERNARY THERMOHALINE CIRCULATION IN THE SOUTHERN OCEAN* (DPP-7921106 A01; 12 MONTHS $51,300

MICHIGAN

MICHIGAN STATE UNIVERSITY

IMSHAUG, HENRY A; *ANALYSIS OF LICHEN POPULATIONS AND THE PUBLICATION OF CRYPTOGAMIC FLORAS FOR SUBPOLAR REGIONS IN THE SOUTHERN HEMISPHERE* (DPP-7722210 A02; 12 MONTHS $39,868

WAYNE STATE UNIVERSITY

COSGRIFF, JOHN W; *TRIASSIC VERTEBRATES FROM THE FREMOUW FORMATION OF THE CUMULUS HILLS, ANTARCTICA* (DPP-7926279; 12 MONTHS $19,815

MINNESOTA

MACALESTER COLLEGE

WEBERS, GERALD F; *GEOLOGICAL INVESTIGATION OF THE ELLSWORTH MOUNTAINS OF WEST ANTARCTICA* (DPP-7911720 A01; 12 MONTHS $61,949

UNIVERSITY OF MINNESOTA

SINIFF, DONALD B; *THE ROLE OF THE LEOPARD SEAL IN THE ANTARCTIC MARINE ECOSYSTEM* (DPP-7721946 A02; 12 MONTHS $76,398

PARMELEE, DAVID F; *ECOLOGICAL AND BEHAVIORAL ADAPTATIONS TO ANTARCTIC ENVIRONMENTS, PALMER STATION, ANTARCTICA* (DPP-7722096 A03; 12 MONTHS $74,871

SINIFF, DONALD B; *THE DEVELOPMENT OF SATELLITE TRACKING AND AUTOMATIC POSITION/ACTIVITY MONITORING FOR SELECTED ANTARCTIC VERTEBRATES* (DPP-7921713 A01; 6 MONTHS $19,814

CAHILL, LAURENCE J; *MICROPULSATION RESEARCH AT ROBERVAL, QUEBEC, AND AT SIPLE AND SOUTH POLE, ANTARCTICA* (DPP-7923294*; 12 MONTHS $50,000

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

KUIVINEN, KARL C; *COORDINATION OF ICE CORE DRILLING* (DPP-7408414 A10*; 12 MONTHS $156,113

NEW HAMPSHIRE

DEPARTMENT OF ARMY-COLD REGIONS RESEARCH AND ENGINEERING LAB

ACKLEY, STEPHEN F; *ANTARCTIC SEA ICE* (DPP-7724529 A02; 12 MONTHS $129,502

KOVACS, AUSTIN; *DETECTION OF SEA ICE BENEATH THE ROSS ICE SHELF BY IMPULSE RADAR* (DPP-8004221; 12 MONTHS $ 79,964

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

MAYEWSKI, PAUL A; *HISTORY AND SIGNIFICANCE OF ICE MASS FLUCTUATIONS IN VICTORIA LAND, ANTARCTICA* (DPP-7921114 A01; 12 MONTHS $30,508

NEW JERSEY

ITT ANTARCTIC SERVICES INC

GRAY, RODNEY E; *SPECIALIZED SCIENTIFIC SUPPORT OF THE UNITED STATES ANTARCTIC RESEARCH PROGRAM* (DPP-8003901; 6 MONTHS $1

GRAY, RODNEY E; *SPECIALIZED SCIENTIFIC SUPPORT OF THE UNITED STATES ANTARCTIC RESEARCH PROGRAM* (DPP-8003901 A01*; $3,000,000

GRAY, RODNEY E; *SPECIALIZED SCIENTIFIC SUPPORT OF THE UNITED STATES ANTARCTIC RESEARCH PROGRAM* (DPP-8003901 A02*; 6 MONTHS $2,766,739

NEW MEXICO

SACRAMENTO PEAK OBSERVATORY

STEBBINS, ROBIN; *EXTENDED OBSERVATIONS OF SOLAR OSCILLATIONS* (DPP-8001469; 36 MONTHS $1

NEW YORK

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

DALZIEL, IAN W; *EVOLUTION OF THE WEST ANTARCTIC - ANDEAN CORDILLERA IN THE SCOTIA ARC REGION* (DPP-7810619 A01; 12 MONTHS $74,006

GORDON, ARNOLD L; *PROCESSING/ANALYSIS OF THE ARA ELAS OR-CADAS HYDROGRAPHIC CIRCUMPOLAR DATA SET* (DPP-7914852 A01; 12 MONTHS $106,717

JACOBS, STANLEY S; *OCEANOGRAPHY OF THE ANTARCTIC CONTINENTAL MARGINS* (DPP-7918674; 12 MONTHS $39,774

DALZIEL, IAN W; *TECTONIC DEVELOPMENT OF WEST ANTARCTICA AND ITS RELATION TO EAST ANTARCTICA* (DPP-7908030; 12 MONTHS $5,000

CORNELL UNIVERSITY

KELLEY, MICHAEL C; *MEASUREMENTS OF DC AND AC ELECTRIC FIELDS AND PLASMA DENSITY ABOVE THE ANTARCTIC VLF TRANSMITTER* (DPP-7903514 A01; 12 MONTHS $25,735

HUNTER COLLEGE

HASCHEMEYER, AUDREY E; *ROLE OF PROTEIN METABOLISM IN COLD ADAPTATION OF ANTARCTIC FISH* (DPP-7720461 A02; 12 MONTHS $90,000

STATE UNIVERSITY AT ALBANY

HOGAN, AUSTIN W; *THE METEOROLOGICAL VARIATION OF ANTARCTIC AEROSOLS* (DPP-7820482 A01; $28,963

STATE UNIVERSITY AT BINGHAMTON

MURRISH, DAVID E; *THERMOREGULATORY MECHANISMS IN ANTARCTIC BIRDS* (DPP-7721861 A02; 12 MONTHS $35,000

STATE UNIVERSITY AT BUFFALO

LANGWAY, CHESTER C; *OPERATION OF THE CENTRAL ICE CORE STORAGE FACILITY AND INFORMATION EXCHANGE* (DPP-7508512 A06*; 12 MONTHS $34,408

LANGWAY, CHESTER C; *POLAR ICE CORE ANALYSIS PROGRAM* (DPP-7927,806*; 12 MONTHS $64,891

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

SAXENA, VINOD K; *MICROPHYSICS OF THE ANTARCTIC COASTAL CLOUD-AEROSOL INTERACTIONS* (DPP-7920566; 36 MONTHS $117,000

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON

GEORGE, ROBERT Y; *GROWTH AND METABOLISM OF ANTARCTIC MARINE CRUSTACEA IN RELATION TO TEMPERATURE AND PRESSURE* (DPP-7827021 A01; 6 MONTHS $9,141

OHIO

KENT STATE UNIVERSITY

DAHL, PETER S; *MINERAL CHEMISTRY AND PETROGENESIS OF ORBICULAR ROCKS FROM THE TAYLOR VALLEY REGION, SOUTH VICTORIA LAND, ANTARCTICA* (DPP-8001763; 12 MONTHS $19,736

MIAMI UNIVERSITY CENTRAL OFFICE

GREEN, WILLIAM J; *ASPECTS OF TRACE METAL AND NUTRIENT BEHAVIOR IN THE ONYX RIVER AND IN LAKE VANDA, ANTARCTICA* (DPP-7920460; 12 MONTHS $56,540

OHIO STATE UNIVERSITY

MERCER, JOHN H; *DATING LATE CENOZOIC GLACIATIONS IN SOUTHERN ARGENTINA* (EAR-7711081 A02*; 12 MONTHS $2,000

THOMPSON, LONNIE G; *MICROPARTICLE STRATIGRAPHY OF ICE CORES FROM THE ROSS ICE SHELF* (DPP-7718071 A03; 6 MONTHS $1,500

KYLE, PHILIP R; *INVESTIGATIONS OF FERRAR GROUP ROCKS AND MT. EREBUS, SOUTH VICTORIA LAND, ANTARCTICA* (DPP-7721590 A02; 12 MONTHS $47,120

ELLIOT, DAVID H; *GEOLOGY AND PALEOMAGNETISM OF MESOZOIC ROCKS, NORTHERN ANTARCTIC PENINSULA* (DPP-7921102 A01; 12 MONTHS $43,548

PRIDE, DOUGLAS E; *GENESIS OF MINERALIZATION ASSOCIATED WITH ANDEAN INTRUSIONS, NORTHERN ANTARCTIC PENINSULA REGION* (DPP-7921103 A02; 1[illegible] MONTHS $34,503

ASKIN, ROSEMARY A; *PALYNOLOGY AND PALEOBOTANY OF MESOZOIC ROCKS OF THE ANTARCTIC PENINSULA AREA AND SOUTHERN SOUTH AMERICA* (DPP-7921105 A02; 12 MONTHS $30,975

COLLINSON, JAMES W; *STRATIGRAPHY AND SEDIMENTARY PETROLOGY OF THE POLARSTAR FORMATION ELLSWORTH MOUNTAINS, ANTARCTICA* (DPP-7921129 A01; 12 MONTHS $29,250

ZINSMEISTER, WILLIAM J; *LATE CRETACEOUS AND EARLY TERTIARY BIOGEOGRAPHY OF THE SOUTHERN CIRCUM-PACIFIC* (DPP-7909015; 12 MONTHS $25,000

KYLE, PHILIP R, AND KIENLE, JUERGEN; *MT. EREBUS, ANTARCTICA, SEISMIC STUDY* (DPP-7908016; 12 MONTHS $44,654

FAURE, GUNTER; *TEST OF CONFLICTING HYPOTHESES ON THE CENOZOIC GLACIATION OF THE TRANSANTARCTIC MOUNTAINS, ANTARCTICA* (DPP-7908407; 12 MONTHS $25,001

BOLZAN, JOHN; *FABRIC DEVELOPMENT IN POLAR ICE* (DPP-7907560; 12 MONTHS $30,407

ELLIOT, DAVID H. AND BULL, COLIN B; *THIRD INTERNATIONAL SYMPOSIUM ON ANTARCTIC GLACIOLOGY* (DPP-8019977; 24 MONTHS $49,797

WEBB, PETER N; *CENOZOIC BIOSTRATIGRAPHY OF ANTARCTICA* (DPP-8018791; 12 MONTHS $34,567

MCKENZIE, GARRY D; *IPA MOBILITY ASSIGNMENT - GARRY D MCKENZIE* (DPP-8020194*; 13 MONTHS $5,000

OKLAHOMA

OKLAHOMA MEDICAL RESEARCH FOUNDATION

MUCHMORE, HAROLD G; *VIRUS SHEDDING AND IMMUNITY DURING ISOLATION IN THE ANTARCTIC* (DPP-8018509; 12 MONTHS $70,000

PENNSYLVANIA

INSTITUTE FOR SCIENTIFIC INFORMATION INC
COZZENS, SUSAN R; *CITATION ANALYSIS OF ANTARCTIC RESEARCH (DPP-7904011)*; 12 MONTHS $39,956

UNIVERSITY OF PITTSBURGH
CASSIDY, WILLIAM A; *ANTARCTIC SEARCH FOR METEORITES (DPP-7811106 A01)*; 12 MONTHS $41,633

WOODWARD-CLYDE CONSULTANTS INC-WOODWARD-CLYDE CONSULTANTS INC-PENNSYLVANIA
HART, PAUL D; *WINTERIZATION AND MONTHLY INSPECTION OF THE USNS ELTANIN (DPP-8800347 A01)*; 6 MONTHS $32,007

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY
HUANG, TEH-CHIEN, AND KENNETT, JAMES P; *HISTORY OF BOTTOM CURRENT SCOUR IN THE SOUTHERN OCEAN (DPP-7908511 A02)*; 12 MONTHS $65,976
KENNETT, JAMES P; *MICROPALEONTOLOGICAL AND PALEOENVIRONMENTAL STUDIES OF MARINE SEDIMENTS FROM THE SOUTHERN OCEANS (DPP-7908512 A02)*; 12 MONTHS $54,442

SWITZERLAND

UNIVERSITY OF BERN
OESCHGER, HANS; *RADIOACTIVE ISOTOPE DATING AND OTHER GEOCHEMICAL AND ISOTOPE STUDIES AS PART OF POLAR ICE DRILLING PROJECTS (DPP-7811496 A02)*; 12 MONTHS $52,650

TEXAS

RICE UNIVERSITY
ANDERSON, JOHN B; *MARINE GEOLOGY OF THE ANTARCTIC CONTINENTAL MARGIN (DPP-7915170)*; 12 MONTHS $52,717

TEXAS A & M UNIVERSITY
EL-SAYED, SAYED Z; *PRODUCTIVITY STUDIES OF THE WEDDELL SEA, THE WATERS OFF WEST ANTARCTICA AND THE INDIAN SECTOR OF THE ANTARCTIC OCEAN (DPP-7909739 A02)*; $40,994
BIGGS, DOUGLAS C; *PHYSIOLOGICAL ECOLOGY ANTARCTIC EUPHAUSIID ZOOPLANKTON: IMPACT OF ZOOPLANKTON EXCRETION ON NH4 + (AMMONIUM ION) NUTRIENT CONCENTRATION AND EPIPELAGIC NITROGEN CYCLING (DPP-7921101 A01)*; 3 MONTHS $1,950
PRYELL, GRETA A; *ABUNDANCE OF DIVERSITY OF SUBANTARCTIC PHYTOPLANKTON (DPP-7919347 A02)*; 6 MONTHS $32,000
BIGGS, DOUGLAS C; *NUTRIENT CHEMISTRY OF AMMONIUM IN ANTARCTIC SURFACE WATERS (DPP-7911355)*; 12 MONTHS $36,507

TEXAS TECH UNIVERSITY
CHATTERJEE, SANKAR; *THE GEOLOGY OF THE TRANSANTARCTIC MOUNTAINS AND MARIE BYRD LAND, ANTARCTICA (DPP-8804952)*; 12 MONTHS $36,192

UNIVERSITY OF HOUSTON CENTRAL CAMPUS
BAUST, JOHN G; *PHYSIOLOGICAL AND BIOCHEMICAL BASES OF FREEZING TOLERANCE IN TERRESTRIAL ARTHROPODS OF THE ANTARCTIC (DPP-7921116 A01)*; $5,300
SHELDON, WILLIAM R; *INVESTIGATION OF ELECTRON PRECIPITATION ASSOCIATED WITH VLF ACTIVITY AT SIPLE STATION, ANTARCTICA (DPP-8911809)*; 12 MONTHS $70,000

UNITED KINGDOM

BRITISH ANTARCTIC SURVEY
BAWDEN, JOHN; *ANNUAL RESUPPLY R/V HERO/PALMER STATION RESEARCH SYSTEM BY RRS BRANSFIELD (DPP-7709453 A01)*; $260,507
BAWDEN, JOHN; *ANNUAL RESUPPLY R/V HERO/PALMER STATION RESEARCH SYSTEM BY RRS BRANSFIELD (DPP-7709453 A00)*; 3 MONTHS $7,242

UTAH

UTAH STATE UNIVERSITY
STILES, CALDINER G, AND DOUPNIK, JOE R; *DIGITAL IONOSONDE STUDIES OF THE IONOSPHERE AT SIPLE STATION, ANTARCTICA, AND ROBERVAL, QUEBEC, CANADA (DPP-7721170 A02)*; 12 MONTHS $80,000
BURLEY, P T, AND DOUPNIK, JOE R; *IONOSONDE STUDIES OF THE CUSP IONOSPHERE FROM SOUTH POLE STATION, ANTARCTICA (DPP-8617351)*; 30 MONTHS $112,945

VIRGINIA

GEOLOGICAL SURVEY
BOWLEY, PETER D; *RECONNAISSANCE GEOLOGIC MAPPING OF THE GRVILLE COAST, ANTARCTICA (DATA REDUCTION PHASE) (DPP-7915114 A01)*; 12 MONTHS $15,000
SOUTHARD, RUPERT B; *ANTARCTIC MAPPING OPERATIONS (DPP-7906410 A01)*; 12 MONTHS $100,000
ELSTON, DONALD P; *DRY VALLEY AND MCMURDO SOUND MARINE PORTRATIGRAPHY (DPP-7907552 A01)*; 12 MONTHS $51,000

VIRGINIA POLYTECHNIC INSTITUTE
PARKER, BRUCE C, AND ZELLER, EDWARD J; *THE RELATIONSHIP OF NITROGENOUS CHEMICAL CONTENT OF POLAR ICE AND SNOW TO ATMOSPHERIC NITROGEN FIXATION (DPP-7701617 A02)*; 12 MONTHS $130,506
PARKER, BRUCE C, AND SIMMONS, GEORGE M; *ANTARCTIC LAKE PHYSIOLOGICAL ADAPTATIONS : ALPHA : (DPP-7908905)*; 12 MONTHS $169,750

WASHINGTON

UNIVERSITY OF WASHINGTON
RADKE, LAWRENCE F; *AIRBORNE STUDIES OF ANTARCTIC AEROSOLS: VOLCANIC, MARINE AND ANTHROPOGENIC (DPP-7908857)*; 24 MONTHS $91,571

WASHINGTON STATE UNIVERSITY
CAMPBELL, MALCOLM J, AND SHEPPARD, JOHN C; *ANTARCTIC HYDROXYL MEASUREMENTS (DPP-7908877)*; 18 MONTHS $46,212
ROBINSON, ELMER; *ANTARCTIC AIR CHEMISTRY AND METEOROLOGY (DPP-7910980)*; 12 MONTHS $69,321
ROBINSON, ELMER, AND RAMSPERGER, W L; *AIR CHEMISTRY MONITORING AT PALMER STATION (DPP-8900797)*; 12 MONTHS $33,661

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON-MEDICAL SCHOOL
DICK, ELLIOT C; *A STUDY OF RESPIRATORY VIRUS TRANSMISSION AMONG THE PERSONNEL AT MC MURDO STATION, ANTARCTICA, DURING THE 'WINFLY' ISOLATION PERIOD (DPP-7908918 A02)*; $11,500
DICK, ELLIOT C; *A STUDY OF RESPIRATORY VIRUS TRANSMISSION AMONG THE PERSONNEL AT MCMURDO STATION, ANTARCTICA, DURING THE 'WINFLY' ISOLATION PERIOD (DPP-8915440)*; 12 MONTHS $65,155

UNIVERSITY OF WISCONSIN-MADISON
BENTLEY, CHARLES R; *ANALYSIS OF ROSS ICE SHELF GEOPHYSICAL AND GLACIOLOGICAL DATA (DPP-7908740)*; 12 MONTHS $63,000
STEARNS, CHARLES R; *THE COLLECTION AND ANALYSIS OF ANTARCTIC AUTOMATIC WEATHER STATION DATA (DPP-7903946)*; 12 MONTHS $137,100

OCEANOGRAPHIC FACILITIES AND SUPPORT

ALASKA

UNIVERSITY OF ALASKA FAIRBANKS-INSTITUTE OF MARINE SCIENCE
DIETER, EMMA B; *SHIPBOARD TECHNICIAN SUPPORT (OCE-7710997 A01)*; 12 MONTHS $63,094
DIETER, EMMA B; *SHIP OPERATIONS SUPPORT (OCE-7710999 A02)*; 12 MONTHS $646,977
DIETER, EMMA B; *SHIP OPERATIONS SUPPORT (OCE-7710999 A03)*; $4,899
BOYER, THOMAS C; *OCEANOGRAPHIC INSTRUMENTATION (OCE-7915442)*; 12 MONTHS $50,702
DIETER, EMMA B; *IMPROVEMENTS FOR BASIC SHIP OPERATIONS (OCE-7915442)*; 12 MONTHS $16,550
DIETER, EMMA B; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-7916455)*; 12 MONTHS $10,700
DIETER, EMMA B; *IMPROVEMENTS FOR BASIC SHIP OPERATIONS (OCE-8901147)*; 12 MONTHS $200,000

CALIFORNIA

SAN JOSE STATE UNIVERSITY
MARTIN, JOHN H; *OCEANOGRAPHIC INSTRUMENTATION (OCE-7911900)*; 12 MONTHS $4,000
MARTIN, JOHN H; *IMPROVEMENTS FOR BASIC SHIP OPERATIONS (OCE-7911900)*; 12 MONTHS $9,720
MARTIN, JOHN H; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-7911900)*; 12 MONTHS $14,052
MARTIN, JOHN H; *SHIP OPERATIONS SUPPORT (OCE-7910900)*; 12 MONTHS $250,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY
SIOGR, GEORGE G; *SHIP OPERATIONS SUPPORT (OCE-7710990 A07)*; 10 MONTHS $3,415,125
SIOGR, GEORGE G; *SHIPBOARD TECHNICIAN SUPPORT (OCE-7710798 A01)*; 12 MONTHS $399,641
FISHER, ROBERT L; *IMPROVEMENTS FOR BASIC SHIP OPERATIONS (OCE-7911900)*; 12 MONTHS $97,000
FISHER, ROBERT L; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-7911900)*; 12 MONTHS $15,000
SIOGR, GEORGE G; *OCEANOGRAPHIC INSTRUMENTATION (OCE-7915301)*; 12 MONTHS $25,051

UNIVERSITY OF SOUTHERN CALIFORNIA
REACH, DONALD L, AND VEEH, EUGENE B; *SHIP OPERATIONS SUPPORT (OCE-7710409 A02)*; 12 MONTHS $400,000
REACH, DONALD L, NEWMAN, DONALD L, AND VEEH, EUGENE B; *SHIPBOARD TECHNICIAN SUPPORT (OCE-7710409 A01)*; 12 MONTHS $35,000
REACH, DONALD L, AND VEEH, EUGENE B; *ACQUISITION OF OCEANOGRAPHIC EQUIPMENT (OCE-7910800 A01)*; 12 MONTHS $41,000
REACH, DONALD L, NEWMAN, DONALD L, AND VEEH, EUGENE B; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-7911000)*; 12 MONTHS $14,950

DELAWARE

UNIVERSITY OF DELAWARE COLLEGE OF MARINE STUDIES

CHURCH, THOMAS M. *TRACE METAL CYCLING IN SALT WATER MARSHES* (OCE 7109950 A02): 9 MONTHS $36,390

DISTRICT OF COLUMBIA

MARITIME ADMINISTRATION

KYLE, BURTON, *COMPARATIVE EVALUATIONS OF TWO RESEARCH VESSELS* (OCE 8906211): 6 MONTHS $33,900

FLORIDA

UNIVERSITY OF MIAMI SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

REEVE, MICHAEL R, *EXPERIMENTAL AND BEHAVIORAL STUDIES ON MARINE PLANKTONIC CARNIVORES* (OCE 7709940 A02): $1,375

WANLESS, HAROLD R, *THE ROLE AND RECORD OF STORM SEDIMENTATION IN SUBTROPICAL LAGOONS, SOUTH FLORIDA* (SAB 7714747 A02): $1,050

GIBBONS, JAMES, *SHIP OPERATIONS SUPPORT* (OCE 7710077 A02): 12 MONTHS $1,324,500

GIBBONS, JAMES, *SHIP OPERATIONS SUPPORT* (OCE 7710077 A03): $76,000

GIBBONS, JAMES, *SHIPBOARD TECHNICIAN SUPPORT* (OCE 7710077 A02): 12 MONTHS $111,01.

GIBBONS, JAMES, *SATELLITE COMMUNICATIONS* (OCE 7807992 A02): 6 MONTHS $1,211

TAYLOR, BARRIE F, *NITROGEN FIXATION IN SUBTROPICAL SEAGRASS COMMUNITIES* (OCE 7908914 A02): $1,050

ROMAN, MICHAEL R, *THE NUTRITIONAL ROLE OF DETRITUS FOR MARINE COPEPODS* (OCE 7908914 A01): $2,135

GIBBONS, JAMES, *CONSTRUCTION AND ACQUISITION OF COASTAL RESEARCH VESSEL* (OCE 7918012 A01): 24 MONTHS $3,100,000

GIBBONS, JAMES, *OCEANOGRAPHIC INSTRUMENTATION* (OCE 7916782): 12 MONTHS $16,600

GIBBONS, JAMES, *FACILITIES SUPPORT - IMPROVEMENTS FOR BASIC SHIP OPERATIONS* (OCE 7916782): 12 MONTHS $95,800

GIBBONS, JAMES, *FACILITIES SUPPORT - PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS* (OCE 7916782): 12 MONTHS $127,400

GEORGIA

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

MENZEL, DAVID W, *SHIPBOARD TECHNICIAN SUPPORT* (OCE 7710006 A02): 12 MONTHS $22,000

MENZEL, DAVID W, *SHIP OPERATIONS SUPPORT* (OCE 7710006 A02): 12 MONTHS $16,000

HAWAII

UNIVERSITY OF HAWAII MANOA

HELSLEY, CHARLES E, *SHIP OPERATIONS SUPPORT* (OCE 7710301 A02): 12 MONTHS $930,000

HELSLEY, CHARLES E, *SHIPBOARD TECHNICIAN SUPPORT* (OCE 7710301 A02): 12 MONTHS $40,000

HELSLEY, CHARLES E, AND CAMPBELL, J F, *OCEANOGRAPHIC INSTRUMENTATION* (OCE 7810851): 12 MONTHS $12,000

HELSLEY, CHARLES E, AND CAMPBELL, J F, *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS* (OCE 7810851): 12 MONTHS $10,500

HELSLEY, CHARLES E, AND CAMPBELL, J F, *IMPROVEMENTS FOR BASIC SHIP OPERATIONS* (OCE 7810851): 12 MONTHS $4,000

MARYLAND

JOHNS HOPKINS UNIVERSITY

TAYLOR, W R, *SHIP OPERATIONS SUPPORT* (OCE 7710301 A02): 12 MONTHS $420,661

TAYLOR, W R, *SHIPBOARD TECHNICIAN SUPPORT* (OCE 7710309 A02): 12 MONTHS $54,560

TAYLOR, W R, *OCEANOGRAPHIC INSTRUMENTATION* (OCE 7908716): 12 MONTHS $14,310

TAYLOR, W R, *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS* (OCE 7916405): 12 MONTHS $5,561

TAYLOR, W R, *IMPROVEMENTS FOR BASIC SHIP OPERATIONS* (OCE 7908716): 12 MONTHS $11,500

MASSACHUSETTS

WOODS HOLE OCEANOGRAPHIC INSTITUTION

STETSON, THOMAS B, *SUPPORT FOR THE UNIVERSITY NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM (UNOLS) OFFICE* (OCE 7716179 A02): 12 MONTHS $96,910

DENSMORE, ROBERTSON P, *SHIP OPERATIONS SUPPORT* (OCE 7710009 A02): 12 MONTHS $3,407,300

DENSMORE, ROBERTSON P, *SHIP OPERATIONS SUPPORT* (OCE 7710009 A02): $139,000

DENSMORE, ROBERTSON P, *SHIP OPERATIONS SUPPORT* (OCE 7710009 A02): $56,000

DENSMORE, ROBERTSON P, *SHIPBOARD TECHNICIAN SUPPORT* (OCE 7710009 A02): 12 MONTHS $204,200

MAXWELL, ARTHUR E, *OPERATIONS SUPPORT FOR DEEP SUBMERGENCE RESEARCH VESSEL (DSRV) ALVIN PROGRAM* (OCE 7710441 A02): 12 MONTHS $913,000

DENSMORE, ROBERTSON P, *REFURBISHING R/V ATLANTIS II* (OCE 7921567 A02): 6 MONTHS $1,000,000

CLARK, HAYD L, *IPA MOBILITY ASSIGNMENT* (CLARK, HAYD LAWRENCE) (OCE 7910716 A02): 3 MONTHS $18,000

CLARK, HAYD L, *IPA MOBILITY ASSIGNMENT* (CLARK, HAYD LAWRENCE) (OCE 7910716 A02): 12 MONTHS $87,600

DENSMORE, ROBERTSON P, *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS* (OCE 7916405): 12 MONTHS $71,135

SPENCER, DEREK W, *OCEANOGRAPHIC INSTRUMENTATION* (OCE 7910092): 12 MONTHS $39,413

DENSMORE, ROBERTSON P, *IMPROVEMENTS FOR BASIC SHIP OPERATIONS* (OCE 7910405): 12 MONTHS $13,300

MICHIGAN

UNIVERSITY OF MICHIGAN

BERTON, ALFRED W, *IMPROVEMENTS FOR BASIC SHIP OPERATIONS* (OCE 7910506): 12 MONTHS $6,400

NEW YORK

COLUMBIA UNIVERSITY LAMONT DOHERTY GEOLOGICAL OBSERVATORY

TALWANI, MANIK, *SHIPBOARD TECHNICIAN SUPPORT* (OCE 7710071 A02): 12 MONTHS $27,000

RYAN, WILLIAM B, *DEEP SUBMERSIBLE SCIENCE STUDY* (OCE 7916547 A01): $11,000

TALWANI, MANIK, AND HAYES, DENNIS E, *SHIP OPERATIONS SUPPORT* (OCE 7810411): 12 MONTHS $982,317

TALWANI, MANIK, AND HAYES, DENNIS E, *SHIP OPERATIONS SUPPORT* (OCE 7910911 A01): $110,000

STATE UNIVERSITY OF STONY BROOK

ROBERTS, FREDERICK G, *ACQUISITION OF OCEANOGRAPHIC EQUIPMENT* (OCE 7909447): 12 MONTHS $9,900

NORTH CAROLINA

DUKE UNIVERSITY MARINE LABORATORY

BARBER, RICHARD T, *SHIPBOARD TECHNICIAN SUPPORT, R/V BASE WARD* (OCE 7710030 A02): 12 MONTHS $40,500

BARBER, RICHARD T, AND NELSON, ERIC B, *SHIP OPERATIONS SUPPORT* (OCE 7710079 A02): 12 MONTHS $1,09,327

BARBER, RICHARD T, AND NELSON, ERIC B, *OCEANOGRAPHIC INSTRUMENTATION, R/V EASTWARD* (OCE 7810461): 12 MONTHS $4,400

BARBER, RICHARD T, AND NELSON, ERIC B, *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS, R/V EASTWARD* (OCE 7810461): 12 MONTHS $52,525

BARBER, RICHARD T, AND NELSON, ERIC B, *IMPROVEMENTS FOR BASIC SHIP OPERATIONS, R/V EASTWARD* (OCE 7810461): 12 MONTHS $11,000

OREGON

OREGON STATE UNIVERSITY

REDMOND, RICHARD C, *SHIP OPERATIONS SUPPORT* (OCE 7710009 A02): 12 MONTHS $1,284,500

REDMOND, RICHARD C, *SHIPBOARD TECHNICIAN SUPPORT* (OCE 7710009 A02): 12 MONTHS $50,000

KELLER, GEORGE H, *OCEANOGRAPHIC INSTRUMENTATION* (OCE 7910367): 12 MONTHS $24,700

REDMOND, RICHARD C, *IMPROVEMENTS FOR BASIC SHIP OPERATIONS* (OCE 7810461): 12 MONTHS $10,000

REDMOND, RICHARD C, *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS* (OCE 7810461): 12 MONTHS $24,700

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

GRIFFIN, JAMES J, *SHIPBOARD TECHNICIAN SUPPORT* (OCE 7710301 A02): 12 MONTHS $90,000

KNAUSS, JOHN A, *SHIP OPERATIONS SUPPORT* (OCE 7710301 A02): 12 MONTHS $1,000,000

SILVA, ARMAND J, AND DONNELL, ALAN D, *MARINE GEOMANTS ENGINEERING DESIGN FOR A LONG COMING CAPABILITY* (OCE 7710371 A02): 12 MONTHS $40,000

DONNELL, ALAN D, *UPGRADE OF COMPUTER TECHNOLOGY AND EQUIPMENT* (OCE 7910404): 12 MONTHS $33,000

GRIFFIN, JAMES J, *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS* (OCE 7916405): 12 MONTHS $15,000

GRIFFIN, JAMES J, *OCEANOGRAPHIC INSTRUMENTATION* (OCE 7910367): 12 MONTHS $50,000

GRIFFIN, JAMES J, *IMPROVEMENTS FOR BASIC SHIP OPERATIONS* (OCE 7908404): 12 MONTHS $9,000

UNIVERSITY OF RHODE ISLAND

KNAUSS, JOHN A, *SHIP OPERATIONS SUPPORT* (OCE 7710009 A02): $55,000

TEXAS

TEXAS A & M UNIVERSITY

THEADWELL, T B, *SHIPBOARD TECHNICIAN SUPPORT* (OCE 7710054 A02): 12 MONTHS $40,000

NOWLIN, WORTH D; *SHIP OPERATIONS SUPPORT (OCE-7723283 A03)*; 12 MONTHS $559,800

TREADWELL, T K; *IMPROVEMENTS FOR BASIC SHIP OPERATIONS (OCE-7921878)*; 12 MONTHS $96,100

TREADWELL, T K; *OCEANOGRAPHIC INSTRUMENTATION (OCE-7923382)*; 12 MONTHS $82,125

TREADWELL, T K; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8000185)*; 12 MONTHS $30,600

UNIV OF TEXAS AT AUSTIN-MARINE SCIENCE INSTITUTE AT PORT ARANSAS

AMOS, ANTHONY F; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-7921886)*; 12 MONTHS $4,420

THOMPSON, JOHN H; *IMPROVEMENTS FOR BASIC SHIP OPERATIONS (OCE-7921887)*; 12 MONTHS $9,500

AMOS, ANTHONY F; *OCEANOGRAPHIC INSTRUMENTATION (OCE-7921888)*; 12 MONTHS $3,000

THOMPSON, JOHN H; *SHIP OPERATIONS SUPPORT (OCE-7921896)*; 12 MONTHS $100,800

VIRGINIA

DEPARTMENT OF DEFENSE-DEFENSE LOGISTICS AGENCY

WENTWORTH, E G; *PROVISION OF FUEL FOR CERTAIN ACADEMIC RESEARCH VESSELS (OCE-8025642*)*; 12 MONTHS $100,000

WASHINGTON

UNIVERSITY OF WASHINGTON

ANDERSON, GEORGE C, AND SANDS, WALTER C; *SHIPBOARD TECHNICIAN SUPPORT (OCE-7723085 A02)*; 12 MONTHS $101,147

ANDERSON, GEORGE C, AND WATKINS, J BOYCE; *SHIP OPERATIONS SUPPORT (OCE-7723088 A02)*; 13 MONTHS $1,759,300

ANDERSON, GEORGE C, AND SANDS, WALTER C; *OCEANOGRAPHIC INSTRUMENTATION (OCE-7921890)*; 12 MONTHS $55,743

ANDERSON, GEORGE C, AND WATKINS, J BOYCE; *IMPROVEMENTS FOR BASIC SHIP OPERATIONS (OCE-7921901)*; 12 MONTHS $43,500

ANDERSON, GEORGE C, AND WATKINS, J BOYCE; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-7921905)*; 12 MONTHS $11,400

NATIONAL RESEARCH CENTERS

ARIZONA

CERRO TOLOLO INTER-AMERICAN OBSERVATORY

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE CERRO TOLOLO INTER-AMERICAN OBSERVATORY (CTIO) (AST-7827879 A06)*; $3,200,000

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE CERRO TOLOLO INTER-AMERICAN OBSERVATORY (CTIO) (AST-7827879 A07)*; $1,630,000

KITT PEAK NATIONAL OBSERVATORY

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE KITT PEAK NATIONAL OBSERVATORY (KPNO) (AST-7827880 A20)*; $6,575,000

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE KITT PEAK NATIONAL OBSERVATORY (KPNO) (AST-7827880 A26)*; $3,925,000

COLORADO

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

BRETHERTON, FRANCIS P; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (ATM-7723757 A50)*; $2,249,388

BRETHERTON, FRANCIS P; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7723757 A52)*; $16,599,274

BRETHERTON, FRANCIS P; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7723757 A59)*; $9,691,703

WHITE, ROBERT M; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7723757 A61)*; $200,000

WHITE, ROBERT M; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7723757 A67)*; $13,538

UNIVED STATES AIR FORCE ACADEMY

WRIGHT, JOHN A; *PERFORM WIND TUNNEL TESTS FOR AERODYNAMIC TESTING OF EQUIPMENT (ATM-7801392 A02)*; $900

NEW MEXICO

SACRAMENTO PEAK OBSERVATORY

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE SACRAMENTO PEAK OBSERVATORY (SPO) (AST-7817292 A28)*; $1,200,000

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE SACRAMENTO PEAK OBSERVATORY (SPO) (AST-7817292 A33)*; $460,000

PUERTO RICO

NATIONAL ASTRONOMY & IONOSPHERE CTR AT ARECIBO

CORSON, DALE R; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE NATIONAL ASTRONOMY AND IONOSPHERE CENTER (NAIC) (AST-7003442 A63)*; $3,500,000

RHODES, FRANK H T; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE NATIONAL ASTRONOMY AND IONOSPHERE CENTER (NAIC) (AST-7003442 A65)*; $1,390,000

RHODES, FRANK H T; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE NATIONAL ASTRONOMY AND ION OSPHERE CENTER (NAIC) (AST-7003442 A69)*; $100,000

WEST VIRGINIA

NATIONAL RADIO ASTRONOMY OBSERVATORY

TAPE, GERALD F; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE NATIONAL RADIO ASTRONOMY OBSERVATORY (NRAO) (AST-7908925 A12)*; $1,300,000

TAPE, GERALD F; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE NATIONAL RADIO ASTRONOMY OBSERVATORY (NRAO) AND VERY LARGE ARRAY (VLA) (AST-7908925 A14*)*; $11,200,000

TAPE, GERALD F; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE NATIONAL RADIO ASTRONOMY OBSERVATORY (NRAO) (AST-7908925 A19)*; $4,526,000

OTHER

ARIZONA

ARIZONA STATE UNIVERSITY

MALIN, MICHAEL C; *TRANSIENT MORPHOLOGY AND PHYSICAL PROPERTIES OF DEPOSITS ASSOCIATED WITH THE MAY 1980 ERUPTIONS OF MT. ST. HELENS, WASHINGTON (EAR-8020701*)*; 12 MONTHS $13,466

CALIFORNIA

CALIFORNIA STATE UNIVERSITY, FRESNO

AVENT, JON; *GROUND-BASED THERMAL INFRARED SURVEYS OF MT. ST. HELENS VOLCANO (EAR-8021096*)*; 12 MONTHS $6,600

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

REVELLE, ROGER; *SUPPORT FOR A SCIENTIFIC SECRETARY FOR THE COMMITTEE ON CLIMATE CHANGE AND THE OCEAN (CCCO) OF THE SCIENTIFIC COMMITTEE ON OCEAN RESEARCH (SCOR) (OCE-7925973*)*; 12 MONTHS $11,425

CONNECTICUT

YALE UNIVERSITY

TUREKIAN, KARL K; *NATURAL RADIONUCLIDE MEASUREMENTS OF MT. ST. HELENS EFFUSIVE MATERIALS (EAR-8021088*)*; 6 MONTHS $8,300

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF SCIENCES

BOLLER, JACK W; *SUPPORT OF THE U. S. NATIONAL COMMITTEE FOR THE ENGINEERING COMMITTEE ON OCEANIC RESOURCES (ECOR) (OCE-7826185 A01)*; 12 MONTHS $12,000

HART, PEMBROKE J; *SUPPORT OF THE GEOPHYSICS RESEARCH BOARD (GRB) AND THE COMMITTEE ON SOLAR-TERRESTRIAL RESEARCH (CSTR) (ATM-7914131 A02*)*; 12 MONTHS $5,000

KATSOUROS, MARY HOPE; *SUPPORT OF THE OCEAN POLICY COMMITTEE (OCE-7923925)*; 12 MONTHS $45,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

KIANG, C S; *DEVELOPMENT OF GRADUATE RESEARCH OPPORTUNITIES IN ATMOSPHERIC AND TERRESTRIAL SCIENCES (ATM-8009560*)*; 5 MONTHS $100,000

IDAHO

IDAHO BUREAU OF STATE PLANNING & CMTY AFFAIRS

KNOWLES, CHARLES R; *ELECTRON MICROPROBE ANALYSIS AND DISTRIBUTION OF VOLCANIC ASH FROM MT. ST. HELENS IN NORTHERN IDAHO (EAR-8020559*)*; 6 MONTHS $5,300

BRECKENRIDGE, ROY M; *BASELINE DEPOSITIONAL ENVIRONMENTS OF MT. ST. HELENS TEPHRA IN NORTHERN IDAHO (EAR-8020612*)*; 6 MONTHS $9,500

MARYLAND

UNIVERSITY OF MARYLAND, COLLEGE PARK

ZOLLER, WILLIAM H; *THE RELEASE OF VOLATILE ELEMENTS BY MT. ST. HELENS VOLCANO (EAR-8020313*)*; 12 MONTHS $17,900

MONTANA

UNIVERSITY OF MONTANA

QAMAR, ANTHONY; *GROUND-BASED INFRARED SURVEY OF MT. ST. HELENS, WASHINGTON (EAR-8020752*)*; 12 MONTHS $11,028

NEW HAMPSHIRE

DARTMOUTH COLLEGE

STOIBER, RICHARD E; *VOLCANIC GASES FROM MT. ST. HELENS (EAR-8020796*)*; 6 MONTHS $10,000

NEW MEXICO

UNIVERSITY OF NEW MEXICO

ANDERSON, ROGER Y; *MEASUREMENT OF THE EFFECTS OF MT. ST. HELENS TEPHRA ON LAKES USING AUTOMATED SEDIMENT TRAPS (EAR-8020795*)*; 6 MONTHS $10,745

NEW YORK

STATE UNIVERSITY AT BINGHAMTON

MORISAWA, MARIE E; *DRAINAGE DEVELOPMENT ON MT. ST. HELENS (EAR-8020699*)*; 8 MONTHS $10,337

OREGON

OREGON GRADUATE CENTER

RASMUSSEN, REINHOLD A; *COLLECTION AND ANALYSIS OF MT. ST. HELENS ASH FOR DESORPTION OF TRACE GASES (ATM-8021009*)*; 6 MONTHS $15,946

PENNSYLVANIA

LEHIGH UNIVERSITY

CARSON, BOBB; *SEDIMENT TRANSPORT ON THE WASHINGTON CONTINENTAL SHELF: USE OF MT. ST. HELENS ASH TO DETERMINE RATES OF SEDIMENT DISPERSAL (OCE-8021543*)*; 12 MONTHS $13,195

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

SIGURDSSON, HARALDUR; *STUDIES OF THE 1980 MT. ST. HELENS TEPHRA DEPOSITS (EAR-8020405*)*; 12 MONTHS $10,000

VIRGINIA

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

WEINBERG, E H; *SUPPORT FOR THE NATIONAL ACADEMY OF ENGINEERING MARINE BOARD (OCE-8006009*)*; 12 MONTHS $8,000

HAMILTON, G R; *SUPPORT OF THE OCEAN SCIENCES BOARD, NATIONAL ACADEMY OF SCIENCES (OCE-8008157)*; 12 MONTHS $25,000

WASHINGTON

TOWNE, RICHARDS AND CHAUDIERE INC

TOWNE, ROBIN M; *INFRASONIC NOISE MEASUREMENTS OF VOLCANIC ACTIVITY NEAR MT. ST. HELENS (EAR-8021094*)*; 6 MONTHS $9,998

WASHINGTON STATE UNIVERSITY

HOOPER, PETER R; *THE CHEMICAL AND PETROGRAPHIC ANALYSIS OF THE MT. ST. HELENS ASH IN EASTERN WASHINGTON, NORTHERN IDAHO AND WESTERN MONTANA (EAR-8020404*)*; 6 MONTHS $8,000

CRONN, DAGMAR R; *QUANTITATIVE CHARACTERIZATION OF TRACE GASES IN THE MT. ST. HELENS VOLCANIC PLUME (ATM-8020555*)*; 12 MONTHS $13,879

WESTERN WASHINGTON UNIVERSITY

EASTERBROOK, DON J; *INVESTIGATION OF PYROCLASTIC, DEBRIS, AND MUD FLOW MAGNETISM AND MORPHOLOGY, MT. ST. HELENS, WASHINGTON (EAR-8020955*)*; 12 MONTHS $10,500

WYOMING

UNIVERSITY OF WYOMING

HOFMANN, DAVID J; *A STUDY OF CONDENSATION NUCLEI INJECTED INTO THE STRATOSPHERE BY THE MT. ST. HELENS VOLCANIC ERUPTION (ATM-7727552 A02*)*; 6 MONTHS $14,000

BIOLOGICAL, BEHAVIORAL, AND SOCIAL SCIENCES

PHYSIOLOGY, CELLULAR AND MOLECULAR BIOLOGY

ALABAMA

SAMFORD UNIVERSITY

HOWELL, WILLIAM M; *SILVER STAINING PATTERNS IN THE NUCLEOLUS ORGANIZER REGIONS OF HUMAN METAPHASE CHROMOSOMES (PCM-7917344)*; 24 MONTHS $38,498

UNIVERSITY OF ALABAMA IN BIRMINGHAM-MEDICAL COLLEGE OF ALABAMA

SACHS, GEORGE; *TRANSPORT OF PLASMA MEMBRANE VESICLES (PCM-7809208 A03)*; 12 MONTHS $47,000

BISHOP, DAVID H; *GENETIC AND MOLECULAR STUDIES OF BUNYAVIRUSES (PCM-7813701 A01)*; 6 MONTHS $7,000

UNIVERSITY OF ALABAMA IN BIRMINGHAM

ZIMMERMAN, JOEL; *ISOLATION, PURIFACTION, UTILIZATION OF MELANOSOMAL PROTEINS IN THE FOWL (PCM-7717796 A01)*; 12 MONTHS $42,000

KIM, HYUN D; *COMPARATIVE PHYSIOLOGICAL AND BIOCHEMICAL STUDIES OF RED BLOOD CELLS (PCM-7815821)*; 12 MONTHS $36,000

DIBONA, DONALD R; *EQUIPMENT FOR QUANTITATIVE ELECTRON MICROSCOPY (PCM-7922729)*; 12 MONTHS $160,000

COMPANS, RICHARD W; *STRUCTURAL COMPONENTS OF VIRAL MEMBRANES (PCM-8006498)*; 24 MONTHS $100,000

SACHS, GEORGE; *ENZYMATIC MECHANISMS OF GASTRIC ACID SECRETION (PCM-8008625)*; 24 MONTHS $98,183

ALASKA

UNIVERSITY OF ALASKA-FAIRBANKS

FOX, JOHN F, AND CHAPIN, F S; *PLANT/HERBIVORE INTERACTION AND DEFENSES IN THE BOREAL FOREST (DEB-7823919 A01)*; 12 MONTHS $60,660

CHAPIN, F S; *MOBILE CARBON POOLS IN ARCTIC TUNDRA PLANTS (DEB-7905845 A01)*; 12 MONTHS $64,114

SHIELDS, GERALD F; *CYTOTAXONOMY OF ALASKAN SIMULIIDAE (DEB-8011094)*; 36 MONTHS $83,501

ARIZONA

ARIZONA STATE UNIVERSITY

HADLEY, NEIL F; *CUTICULAR PERMEABILITY AND EPICUTICULAR LIPID COMPOSITION OF ARTHROPODS (PCM-7723803 A02)*; 12 MONTHS $41,928

TRELEASE, RICHARD N; *GLYOXYLATE CYCLE METABOLISM IN PLANTS AND NEMATODES (PCM-7823156 A01)*; 12 MONTHS $44,130

SCHMIDT, JEAN M; *SYSTEMATICS, ECOLOGY, AND MORPHOGENESIS OF TWO AQUATIC BACTERIA (DEB-7823281 A01)*; 12 MONTHS $22,708

ARONSON, JEROME M; *SYSTEMATICS OF AQUATIC FUNGI: A BIOCHEMICAL APPROACH (DEB-7824649 A01)*; 12 MONTHS $32,321

CHURCH, KATHLEEN K; *CHROMOSOME DISTRIBUTION SYSTEMS IN DROSOPHILA MELANOGASTER (PCM-7908850 A01)*; 12 MONTHS $48,000

REEVES, HENRY C; *MODULATION OF NADP+ -ISOCITRATE DEHYDROGENASE (PCM-7921714)*; 12 MONTHS $39,035

NASH, THOMAS H; *ECOLOGY OF COASTAL LICHENS IN SOUTHERN CALIFORNIA (DEB-7921953)*; 12 MONTHS $46,327

HAZEL, JEFFREY R; *THERMAL ADAPTATION IN BIOLOGICAL MEMBRANES OF POIKILOTHERMS (PCM-8003454)*; 12 MONTHS $40,621

FISHER, STUART G; *RECOVERY PROCESSES OF DESERT STREAMS (DEB-8004145)*; 12 MONTHS $88,764

DAVIDSON, ELIZABETH W; *INSECTICIDAL TOXIN OF BACILLUS SPHAERICUS STRAIN 1593 (PCM-8004262)*; 12 MONTHS $20,700

WALSBERG, GLENN E; *THERMAL ECOLOGY OF THE PHAINOPEPLA (DEB-8004266)*; 12 MONTHS $28,418

MUSEUM OF NORTHERN ARIZONA

WHITHAM, THOMAS G; *A COMPUTER SYSTEM FOR A BIOLOGY DEPARTMENT (DEB-7922151)*; 12 MONTHS $26,000

WHITHAM, THOMAS G; *HOST VARIATION AND HOST SELECTION IN A COEVOLVED PLANT-PARASITE SYSTEM (DEB-8005602)*; 12 MONTHS $43,057

NORTHERN ARIZONA UNIVERSITY

JOHNSON, CLARENCE D; *ECOSYSTEMATICS OF ACANTHOSCELIDES (BRUCHIDAE) OF SOUTHERN MEXICO AND CENTRAL AMERICA (DEB-7805962 A02)*; 12 MONTHS $19,780

MOGENSEN, H LLOYD; *CYTOCHEMICAL AND BIOCHEMICAL ANALYSIS OF ALKALINE PHOSPHATASE ACTIVITY IN THE ANGIOSPERM OVULE BEFORE AND AFTER FERTILIZATION (PCM-8009020)*; 24 MONTHS $48,865

UNIVERSITY OF ARIZONA-COLLEGE OF MEDICINE

DANTZLER, WILLIAM H; *RENAL FUNCTION IN VERTEBRATES (PCM-7809087 A02)*; 12 MONTHS $58,516

MOUNT, DAVID W; *GENETIC STUDIES OF ESCHERICHIA COLI K-12 (PCM-7912059 A01)*; $8,001

MOUNT, DAVID W; *GENETIC STUDIES OF ESCHERICHIA COLI K-12 (PCM-7912059 A02)*; 12 MONTHS $47,500

MEINKE, WILLIAM J; *ELECTRON MICROSCOPE FACILITY FOR MOLECULAR BIOLOGY STUDIES (PCM-7913408)*; 12 MONTHS $50,000

UNIVERSITY OF ARIZONA

BAGNARA, JOSEPH T; *HORMONAL REGULATION OF THE SYNTHESIS AND DEPOSITION OF PTERORHODIN (PCM-7707071 A04)*; $2,500

WELLS, MICHAEL A; *THE MECHANISM OF ACTION OF PHOSPHOLIPASES (PCM-7724673 A02)*; 12 MONTHS $33,000

JENSEN, RICHARD G; *METABOLIC CONTROL OF PHOTOSYNTHETIC CARBON ASSIMILATION IN THE CHLOROPLAST (PCM-7726284 A02)*; 12 MONTHS $43,371

CUSANOVICH, MICHAEL A; *STRUCTURE AND FUNCTION OF A BACTERIAL CYTOCHROME C2 (PCM-7804349 A02)*; 12 MONTHS $20,000

HRUBY, VICTOR J; *STRUCTURAL STUDIES OF SYNTHETIC HORMONES AND POLYPEPTIDES (PCM-7807222 A02)*; 12 MONTHS $25,000

MCCLURE, M A; *SCANNING ELECTRON MICROSCOPE FOR THE COLLEGE OF AGRICULTURE (PCM-7910096*)*; 12 MONTHS $50,000

HOSHAW, ROBERT W; *SYSTEMATICS OF THE GREEN ALGAL FAMILY ZYGNEMATACEAE (DEB-7910502)*; 24 MONTHS $37,854

HEED, WILLIAM B, AND KIRCHER, HENRY W; *ECOLOGY, GENETICS AND NUTRITION OF DROSOPHILA IN THE SONORAN DESERT (DEB-7912924 A01)*; 12 MONTHS $60,725

MARTIN, PAUL S; *MEGAFAUNAL EXTINCTIONS AND LATE WISCONSIN ENVIRONMENTS OF ARIZONA AND NEVADA (DEB-7923840)*; 24 MONTHS $84,773

SCHAFFER, WILLIAM M; *FORAGING ACTIVITY, COMPETITION AND TEMPERATURE REGULATION IN THREE SPECIES OF APOIDEA (DEB-8003783)*; 24 MONTHS $109,895

WILSON, GEORGE S; *ELECTROCHEMICAL STUDIES OF BIOLOGICAL REDOX REACTIONS (PCM-8011555)*; 12 MONTHS $40,000

HEWLETT, MARTINEZ J; *BIOCHEMISTRY OF UUKUNIEMI VIRUS RNA (PCM-8011785)*; 12 MONTHS $38,000

GAY, LLOYD W; *THE EFFECT OF PUMICE DEPOSITION UPON SOIL THERMAL PROPERTIES (DEB-8022102)*; 6 MONTHS $11,919

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

CLAYTON, FRANCES E; *PATTERNS OF HETEROCHROMATIN DISTRIBUTION IN THE CHROMOSOMES OF HAWAIIAN DROSOPHILA (DEB-7723031 A02)*; 12 MONTHS $20,593

HINTON, JAMES F, AND MILLETT, FRANCIS S; *TI NMR STUDY OF ION TRANSPORT IN BIOLOGICAL MEMBRANES (PCM-7827037 A01)*; 12 MONTHS $44,000

SMITH, EDWIN B; *COLLABORATIVE RESEARCH ON A MONOGRAPHIC STUDY OF THE GENUS COREOPSIS (COMPOSITAE) (DEB-8011712)*; 12 MONTHS $26,392

UNIVERSITY OF ARKANSAS MED SCIENCES CAMPUS

TANK, PATRICK W; *PATTERN REGULATION IN REGENERATING AND DEVELOPING FORELIMBS OF SALAMANDERS (PCM-7920503)*; 12 MONTHS $41,325

SMITH, W GRADY; *AQUISITION OF LIQUID SCINTILLATION SYSTEM (PCM-7923039)*; 12 MONTHS $30,000

BERMUDA

BERMUDA BIOLOGICAL STATION FOR RESEARCH INC

ILIFFE, THOMAS M, AND STERRER, WOLFGANG E; *SYSTEMATICS OF AN OCEANIC CAVE FAUNA (DEB-8001836)*; 24 MONTHS $38,500

STERRER, WOLFGANG E; *SHORT PROJECTS IN MARINE BIOLOGICAL SCIENCE (DEB-8008808*)*; 12 MONTHS $17,160

CALIFORNIA

AMERICAN SOCIETY OF ZOOLOGISTS

JAMES, FRANCES C; *SYMPOSIUM ON 'THE SYSTEMATICS - ECOLOGY INTERFACE', DECEMBER 30, 1979; TAMPA, FL (DEB-7912369)*; 6 MONTHS $3,040

MANNING, MARGARET J, AND COHEN, NICHOLAS; *INTERNATIONAL SYMPOSIUM ON IMMUNOLOGICAL MEMORY; DECEMBER 27-30, 1979; TAMPA, FLORIDA (PCM-7912565)*; 12 MONTHS $3,000

BRYANT, SUSAN V; *SYMPOSIUM ON PRINCIPLES AND PROBLEMS OF PATTERN FORMATION IN ANIMALS; DECEMBER 27-30, 1980; SEATTLE, WASHINGTON (PCM-8002367)*; 12 MONTHS $5,000

STEPHENS, GROVER C; *SYMPOSIUM ON THE ROLE OF UPTAKE OF ORGANIC SOLUTES IN NUTRITION OF MARINE ORGANISMS; SEATTLE, WASHINGTON; DECEMBER 27-30, 1980 (PCM-8003131)*; 12 MONTHS $4,000

RIDDIFORD, LYNN M; *SYMPOSIUM ON INSECT SYSTEMS: MILESTONES AND NEW HORIZONS IN ENDOCRINOLOGY, PHYSIOLOGY AND DEVELOPMENT; SEATTLE, WASHINGTON; DECEMBER 27-30, 1980 (PCM-8003132)*; 12 MONTHS $4,000

LIEM, KAREL F, AND LAUDER, GEORGE V; *SYMPOSIUM ON MORPHOLOGY OF THE ACTINOPTERYGIAN FISHES, SEATTLE, WASHINGTON, DECEMBER 27-30, 1980 (DEB-8003206)*; 12 MONTHS $6,566

HUEY, RAYMOND B; *SYMPOSIUM ENTITLED: ' LIZARD ECOLOGY: STUDIES ON A MODEL ORGANISM ', DECEMBER 27-30, 1980; SEATTLE, WASHINGTON (DEB-8010920)*; 12 MONTHS $10,498

CALIFORNIA ACADEMY OF SCIENCES

ROBERTS, TYSON R; *AN ICHTHYOLOGICAL SURVEY OF THE KAPUAS RIVER (DEB-7724574 A02)*; 12 MONTHS $29,203

LEE, WELTON L; *CURATION AND IMPROVEMENT OF SYSTEMATIC COLLECTIONS (DEB-7908522 A01)*; 12 MONTHS $48,415

BREEDLOVE, DENNIS E; *THE FLORA OF CHIAPAS (DEB-7912213)*; 24 MONTHS $76,253

BREEDLOVE, DENNIS E; *MULTI-USER FIELD RESEARCH VEHICLE (DEB-7923274)*; 12 MONTHS $15,508

BREEDLOVE, DENNIS E; *SUPPORT FOR SYSTEMATIC COLLECTIONS (DEB-7927070)*; 12 MONTHS $93,763

DREWES, ROBERT C; *SYMPOSIUM ON AMPHIBIAN PHYSIOLOGY, UNIVERSITY OF CALIFORNIA, DAVIS (PCM-8010953)*; 4 MONTHS $4,092

IWAMOTO, TOMIO, AND ESCHMEYER, WILLIAM N; *THE COLLECTION OF FISHES AT THE CALIFORNIA ACADEMY OF SCIENCES (DEB-8013013)*; 12 MONTHS $52,000

LEVITON, ALAN E; *SUPPORT FOR THE SYSTEMATIC COLLECTIONS OF THE DEPARTMENT OF HERPETOLOGY (DEB-8014250)*; 12 MONTHS $45,003

KAVANAUGH, DAVID H; *SUPPORT FOR THE SYSTEMATIC COLLECTIONS OF THE DEPARTMENT OF ENTOMOLOGY (DEB-8015518)*; 12 MONTHS $65,000

CALIFORNIA INSTITUTE OF TECHNOLOGY

LEWIS, EDWARD B; *MAINTENANCE OF A COLLECTION OF MUTANT TYPES OF DROSOPHILA (DEB-7600281 A04)*; 12 MONTHS $70,066

HOOD, LEROY E; *GENETIC CONTROL OF ANTIBODY DIVERSITY AND EVOLUTION (PCM-7681542 A03)*; $8,000

STRAUSS, JAMES H; *STRUCTURE AND REPLICATION OF SINDBIS VIRUS (PCM-7726728 A02)*; 12 MONTHS $40,000

MANIATIS, THOMAS P; *NUCLEOTIDE SEQUENCES ADJACENT TO RABBIT GLOBIN GENES (PCM-7903010 A01)*; 12 MONTHS $100,460

DICKERSON, RICHARD E; *LOS ANGELES REGION BIOMOLECULAR COMPUTER GRAPHICS AND REFINEMENT FACILITY (PCM-7905997)*; 12 MONTHS $175,000

BENZER, SEYMOUR; *GENETIC ANALYSIS OF NERVOUS SYSTEM AND BEHAVIOR (PCM-7911771)*; 12 MONTHS $237,450

DICKERSON, RICHARD E; *STRUCTURE AND CONTROL IN BIOLOGICAL MACROMOLECULES (PCM-7913959 A01)*; 12 MONTHS $80,000

LAZARIDES, ELIAS; *THE BIOSYNTHESIS AND METABOLISM OF DESMIN AND INTERMEDIATE FILAMENTS (PCM-7914195)*; 12 MONTHS $44,700

BERG, HOWARD C; *BACTERIAL FLAGELLAR ROTATION (PCM-7922601)*; 12 MONTHS $40,000

DELBRUCK, MAX; *PHYCOMYCES: PHYSIOLOGY, BIOCHEMISTRY, GENETICS (PCM-8003846)*; 12 MONTHS $96,000

DAVIDSON, ERIC H, AND BRITTEN, ROY J; *REPETITIVE SEQUENCE EXPRESSION AND GENOMIC EVOLUTION (PCM-8004072)*; 12 MONTHS $50,000

DREYER, WILLIAM J; *PROTEIN CHEMICAL STUDIES OF GP70 DIVERSITY (PCM-8005559)*; 12 MONTHS $50,000

WU, THEODORE Y, AND YATES, GEORGE T; *TUNA ENERGETICS AND HYDRODYNAMICS: AN INTERDISCIPLINARY STUDY OF ENERGY TRANSFERS (PCM-8013473)*; 24 MONTHS $199,997

CALIFORNIA STATE UNIVERSITY, CHICO

KISTNER, DAVID H; *A SPECIES REVISION OF THE ALEOCHARINAE (DEB-7905088 A01)*; 12 MONTHS $26,700

CALIFORNIA STATE UNIVERSITY, FULLERTON

NAGEL, GLENN M; *THE FUNCTION OF DISSIMILAR SUBUNITS IN GLYCYL-TRNA SYNTHETASE (PCM-7714026 A01)*; 18 MONTHS $50,500

CALIFORNIA STATE UNIVERSITY, LONG BEACH

CALLISON, GEORGE L; *SMALL VERTEBRATES FROM THE LATE JURASSIC OF WESTERN COLORADO (DEB-7823656 A01)*; $1,406

CITY OF HOPE NATIONAL MEDICAL CENTER

SHIVELY, JOHN E; *STRUCTURE OF FIBRONECTIN (PCM-7801012 A01)*; 12 MONTHS $25,000

MILLER, MARCIA J; *DEVELOPMENTALLY EXPRESSED CELL SURFACE MARKERS ON AVIAN ERYTHROCYTES (PCM-8004699)*; 24 MONTHS $75,000

HARVEY MUDD COLLEGE

PURVES, WILLIAM K; *SHOOT DEVELOPMENT: REGULATION OF HORMONE LEVELS (PCM-7726476 A01)*; 12 MONTHS $41,300

HUMBOLDT STATE UNIVERSITY

BARRATT, RAYMOND W; *FUNGAL GENETIC STOCKS (DEB-8018059)*; 36 MONTHS $216,941

LOS ANGELES COUNTY MUSEUM OF NATURAL HISTORY

REYNOLDS, DON R; *SYSTEMATICS OF FOLICOLOUS FUNGI (CAPNODIACEASE ASCOMYCETES) (DEB-7912481)*; 24 MONTHS $69,042

BARNES, LAWRENCE G, SWIFT, CAMM C, MITCHELL, EDWARD D, AND WELTON, BRUCE J; *PALEOECOLOGY OF THE SHARKTOOTH HILL BONEBED (EAR-7916508*)*; 12 MONTHS $10,000

WRIGHT, JOHN W, AND BEZY, ROBERT L; *SUPPORT FOR THE DEVELOPMENT OF HERPETOLOGICAL RESOURCES (DEB-7921060)*; 12 MONTHS $122,500

LAVENBERG, ROBERT J, AND SWIFT, CAMM C; *DEVELOPMENT OF ICHTHYOLOGICAL RESOURCES (DEB-8008988)*; 36 MONTHS $280,659

OCCIDENTAL COLLEGE

KEELEY, JON E; *DIURNAL ACID METABOLISM IN THE SUBMERSED AQUATIC ISOETES HOWELLII (DEB-8004614)*; 24 MONTHS $85,000

SAN DIEGO STATE UNIVERSITY

MILLER, PHILIP C; *COMMUNITY ORGANIZATION AND RESOURCE UTILIZATION BY VEGETATION IN CONVERGENT ECOSYSTEMS (DEB-7713944 A04)*; $39,898

DAHMS, A S; *SELECTIVE CHEMICAL PROBES AT MEMBRANE STRUCTURE AND FUNCTION (PCM-7808259 A01)*; 12 MONTHS $37,000

HURLBERT, STUART H; *AQUATIC BIOTA OF LATIN AMERICA (DEB-7823629 A01*)*; 12 MONTHS $36,946

ZEDLER, PAUL H; *POPULATION ECOLOGY OF A CLOSED-CONE CONIFER (DEB-7913424 A01)*; 12 MONTHS $36,972

ESTES, RICHARD D; *AMPHIBIANS AND REPTILES FROM THE LATE PALEOCENE OF BRAZIL (DEB-8003676)*; 36 MONTHS $88,333

MARION, GILES M; *MULTIUSER ACQUISITION OF DUAL COLLECTOR MASS SPECTROMETER (DEB-8004294)*; 12 MONTHS $70,000

MARION, GILES M; *MULTIUSER ACQUISITION OF DUAL COLLECTOR MASS SPECTROMETER (DEB-8004294 A01)*; $13,018

VANWINKLE-SWIFT, KAREN P; *GENETICS AND CELL BIOLOGY OF HOMOTHALLISM IN CHLAMYDOMONAS (PCM-8010926)*; 12 MONTHS $50,000

SAN FRANCISCO STATE UNIVERSITY

BOWEN, SARANE T; *ARTEMIA HEMOGLOBINS: GENETIC REGULATION (PCM-7904662)*; 12 MONTHS $45,000

SCRIPPS CLINIC AND RESEARCH FOUNDATION

THOMAS, CHARLES A; *FUNCTIONAL DETERMINATION OF CHROMATIN (PCM-7816282 A01)*; 12 MONTHS $50,000

HATEFI, YOUSSEF; *MOLECULAR AND ENZYMIC STUDIES ON THE MITOCHONDRIAL ATP-PI EXCHANGE COMPLEX (COMPLEX V) (PCM-7826794 A01*; 12 MONTHS $35,000

STANFORD UNIVERSITY-HOPKINS MARINE STATION

EPEL, DAVID; *BIOCHEMISTRY OF FERTILIZATION AND EARLY DEVELOPMENT (PCM-7721493 A03*; 12 MONTHS $125,969

STANFORD UNIVERSITY-SCHOOL OF MEDICINE

BALDWIN, ROBERT L; *INTERMEDIATES IN PROTEIN FOLDING REACTIONS AND THE MECHANISM OF PROTEIN FOLDING (PCM-7716834 A03*; 12 MONTHS $50,000

WALLACE, DOUGLAS C; *CYTOPLASMIC GENETICS IN CULTURED MAMMALIAN CELLS (PCM-7724793 A03*; 12 MONTHS $35,000

KORNBERG, ARTHUR; *MEMBRANES IN DNA REPLICATION AND THE VIRAL LIFE CYCLE (PCM-7725985 A02*; 12 MONTHS $65,000

HOGNESS, DAVID S; *THE STRUCTURE AND FUNCTION OF ANIMAL CHROMOSOMES (PCM-7822421 A01*; 12 MONTHS $76,061

STOCKDALE, FRANK E; *SKELETAL MUSCLE CELL DIFFERENTIATION (PCM-7904963 A01*; 12 MONTHS $60,000

CIARANELLO, ROLAND D; *NEUROTRANSMITTER ENZYME REGULATION (PCM-7910793*; 12 MONTHS $55,999

STANFORD UNIVERSITY

MOONEY, HAROLD A; *LIGHT, STOMATAL FUNCTION AND ENERGY-TRANSDUCTION IN GUARD CELLS (PCM-7717642 A02*; 12 MONTHS $48,299

KAISER, ARMIN D; *CELL-CELL INTERACTIONS (PCM-7719382 A02*; 12 MONTHS $50,000

MCCONNELL, HARDEN M; *PROBLEMS IN MEMBRANE BIOPHYSICS (PCM-7723586 A02*; 12 MONTHS $70,000

YANOFSKY, CHARLES; *GENETICS AND BIOCHEMISTRY OF THE TRYPTOPHAN OPERON (PCM-7724333 A02*; 12 MONTHS $101,000

MOONEY, HAROLD A, EHRLICH, PAUL R, AND ROUGHGARDEN, JONATHAN; *LIMITATIONS TO ENERGY CAPTURE IN NATURAL ECOSYSTEMS (DEB-7802067 A02*; $38,365

MOONEY, HAROLD A, EHRLICH, PAUL R, AND ROUGHGARDEN, JONATHAN; *LIMITATIONS TO ENERGY CAPTURE IN NATURAL ECOSYSTEMS (DEB-7802067 A03*; 12 MONTHS $180,024

GREEN, PAUL B; *AXIS INITIATION AND EXTENSION IN PLANTS (PCM-7803244 A02*; 12 MONTHS $49,000

JARDETZKY, OLEG; *NMR INVESTIGATIONS OF MACROMOLECULAR DYNAMICS (PCM-7807930 A02*; 12 MONTHS $80,000

MOONEY, HAROLD A; *COLLABORATIVE STUDIES ON THE PHOTOSYNTHETIC ADAPTATION OF HIGHER PLANTS (DEB-7810599 A02*; 12 MONTHS $57,000

EHRLICH, PAUL R; *POPULATION BIOLOGY OF EUPHYDRYAS BUTTERFLIES (DEB-7822413 A01*; 12 MONTHS $53,000

PECORA, ROBERT; *THEORETICAL AND EXPERIMENTAL STUDIES OF THERMAL MOTIONS IN LIQUIDS AND POLYMER SYSTEMS (CHE-7901070 A01*; 12 MONTHS $25,000

LEHMAN, I ROBERT; *MECHANISMS OF GENETIC RECOMBINATION (PCM-7904638 A01*; 12 MONTHS $65,000

HODGSON, KEITH O, AND DONIACH, SEBASTIAN; *APPLICATION OF X-RAY PHOTOABSORPTION SPECTROSCOPY TO THE STUDY OF MOLECULES OF BIOLOGICAL INTEREST (PCM-7904915 A01*; 12 MONTHS $60,000

MATIN, ABDUL; *SPECIFICITY OF AMINO ACID TRANSPORT SYSTEMS IN THIOBACILLUS NEAPOLITANUS (PCM-7911485*; 12 MONTHS $3,000

ROUGHGARDEN, JONATHAN; *COEVOLUTION IN SIMPLE COMPETITION COMMUNITIES (DEB-7922134*; 12 MONTHS $40,000

KARLIN, SAMUEL, AND MCGREGOR, JAMES L; *TOPICS IN ANALYSIS, TOTAL POSITIVITY AND RELATED MATHEMATICAL MODELS IN BIOLOGY (MCS-7924310*; 12 MONTHS $21,442

BOXER, STEVEN G; *PHOTOCHEMICAL MECHANISM AND MACROMOLECULAR ORGANIZATION IN PHOTOSYNTHETIC MODELS AND REACTION CENTERS (PCM-7926677*; 12 MONTHS $49,000

WATT, WARD B; *EVOLUTIONARY ADAPTATION AT SPECIFIC GENE LOCI (DEB-8011129*; 12 MONTHS $60,000

WESSELLS, NORMAN K; *MECHANISMS OF ORGAN DEVELOPMENT (PCM-8011704*; 12 MONTHS $61,240

UNIVERSITY OF CALIFORNIA, BERKELEY

KOSHLAND, DANIEL E; *CATALYTIC POWER OF ENZYMES (PCM-7516410 A04*; 12 MONTHS $30,000

HOLMQUIST, W RICHARD; *PROTEIN AND NUCLEIC ACID EVOLUTION (PCM-7615627 A01*; 4 MONTHS $5,000

HOLMQUIST, W RICHARD; *PROTEIN AND NUCLEIC ACID EVOLUTION (PCM-7618627 A03*; 12 MONTHS $55,000

SCHACHMAN, HOWARD K; *FUNCTIONAL ASPECTS OF THE QUATERNARY STRUCTURE OF PROTEINS (PCM-7623308 A04*; 12 MONTHS $55,000

PITELKA, FRANK A; *FACTORS OF NON-BREEDING HABITAT IN SHOREBIRD SOCIAL SYSTEMS (DEB-7723373 A02*; 12 MONTHS $34,000

MALKIN, RICHARD; *PRIMARY PHOTOCHEMICAL PROCESSES IN PHOTOSYNTHETIC SYSTEMS (PCM-7724861 A03*; 12 MONTHS $33,000

MACHEN, TERRY E; *ION AND WATER TRANSPORT BY TELEOST URINARY BLADDER (PCM-7725905 A01*; 12 MONTHS $24,200

BALLOU, CLINTON E; *YEAST CELL WALL SYNTHESIS AND DEGRADATION IN RELATION TO MORPHOGENESIS (PCM-7727334 A02*; 12 MONTHS $55,000

WILSON, ALLAN C; *SYSTEMATIC BIOLOGY OF HIGHER PRIMATES (DEB-7809841 A03*; 12 MONTHS $104,829

WAKE, DAVID B; *ADAPTIVE RADIATION OF PLETHODONTID SALAMANDERS IN THE NEW WORLD TROPICS AND WESTERN NORTH AMERICA (DEB-7809008 A02*; 12 MONTHS $57,500

LEIGHTON, TERRANCE J; *MECHANISMS OF NORMAL AND ABNORMAL DIFFERENTIATION (PCM-7906838 A01*; 24 MONTHS $65,000

MORTIMER, ROBERT K; *SUPPORT OF THE YEAST GENETICS STOCK CENTER (DEB-7807107 A02*; 12 MONTHS $40,996

LIDICKER, WILLIAM Z; *OPERATIONAL SUPPORT OF THE COLLECTION OF MAMMALS IN THE MUSEUM OF VERTEBRATE ZOOLOGY (DEB-7807110 A02*; 12 MONTHS $47,008

PATTON, JAMES L, JOHNSON, NED K, LIDICKER, WILLIAM Z, AND WAKE, DAVID B; *SUPPORT OF FROZEN TISSUE COLLECTION AND EVOLUTIONARY GENETICS LABORATORY OF THE MUSEUM OF VERTEBRATE ZOOLOGY (DEB-7807548 A02*; 12 MONTHS $52,100

BERN, HOWARD A; *INVESTIGATION OF THE PROPERTIES OF NEUROSECRETORY CELLS AND CERTAIN NEUROSECRETORY SYSTEMS (PCM-7810348 A02*; 12 MONTHS $96,900

FRANKIE, GORDON W, AND BAKER, HERBERT G; *ANALYSIS OF POLLINATION-BASED RELATIONSHIPS BETWEEN ANIMALS AND PLANTS AT A MID-ELEVATION TROPICAL CLOUD FOREST (DEB-7811728 A02*; 12 MONTHS $80,914

PATTON, JAMES L; *THE EVOLUTIONARY GENETICS OF GEOMYID RODENTS (DEB-7812029 A02*; 12 MONTHS $56,241

COLWELL, ROBERT K; *ECOLOGY AND EVOLUTION IN SIMPLE AND COMPLEX COMMUNITIES (DEB-7812038 A02*; 12 MONTHS $45,415

NEILANDS, JOHN B; *IRON ASSIMILATION SYSTEMS AS DETERMINANTS OF VIRULENCE IN MICROBIAL PLANT PATHOGENS (PCM-7812198 A01*; 12 MONTHS $27,306

LICHT, PAUL, AND PAPKOFF, HAROLD; *COMPARATIVE PHYSIOLOGY AND BIOCHEMISTRY OF VERTEBRATE PITUITARY HORMONES (PCM-7812470 A02*; 12 MONTHS $156,006

JONES, RUSSELL L; *THE ROLE OF GIBBERELLINS AND LIGHT IN PLANT CELL ELONGATION (PCM-7813286 A02*; 12 MONTHS $50,749

BUCHANAN, BOB B; *REGULATORY MECHANISMS IN CARBOHYDRATE SYNTHESIS (PCM-7815287 A01*; 12 MONTHS $67,609

LAETSCH, W M; *CELL WALL ANTIGENS AND DEVELOPMENT OF THE WALL OF FUCUS ZYGOTES (PCM-7815988 A01*; $1,416

BEARDEN, ALAN J; *EPR STUDIES OF CHLOROPLAST PHOTOSYNTHESIS (PCM-7822245 A01*; 12 MONTHS $49,000

SHERMAN, PAUL W; *ADAPTIVE SIGNIFICANCE OF MAMMALIAN BEHAVIOR (BNS-7824952 A01*; 26 MONTHS $16,927

FRAENKEL-CONRAT, HEINZ L; *A NATURE AND FUNCTION OF RNA REPLICATING ACTIVITY IN PLANT LEAVES (PCM-7825159 A01*; 12 MONTHS $40,000

TAYLOR, WILLIAM C; *GENE REGULATION DURING HIGHER PLANT DEVELOPMENT (PCM-7826789 A01*; 12 MONTHS $40,000

NICOLL, CHARLES S; *EVOLUTIONARY BIOLOGY OF PROLACTINS AND SOMATOTROPINS (PCM-7904562 A01*; 12 MONTHS $66,400

MORTIMER, ROBERT K; *GENETIC STUDIES OF SACCHAROMYCOPSIS LIPOLYTICA (PCM-7904660*; 12 MONTHS $40,051

PAPENFUSS, GEORGE F; *A HISTORY, CATALOGUE, AND BIBLIOGRAPHY OF THE BENTHIC ALGAE OF THE INDIAN OCEAN (DEB-7910120*; 12 MONTHS $34,396

KIRSCH, JACK F; *MECHANISMS OF ENZYMATIC CATALYSIS (PCM-7910971 A01*; 12 MONTHS $55,000

GLAZER, ALEXANDER N; *MOLECULAR ARCHITECTURE OF LIGHT-ENERGY TRANSDUCING SYSTEMS (PCM-7910996*; 12 MONTHS $45,000

SAUER, KENNETH; *ENERGY CONVERSION IN PHOTOSYNTHETIC MEMBRANES (PCM-7911251 A01*; 12 MONTHS $50,000

FRISTROM, JAMES W; *CELL MEMBRANE PROTEINS INVOLVED IN MORPHOGENESIS IN IMAGINAL DISC EVAGINATION (PCM-7912318*; 24 MONTHS $50,000

GUTIERREZ, ANDREW P; *BIOLOGICAL CONTROL OF PESTS IN ARBOREAL HABITATS (DEB-7916538*; 18 MONTHS $37,076

WEST, JOHN A, AND GLAZER, ALEXANDER N; *INVESTIGATIONS OF THE MAJOR RED ALGAL PHOTOSYNTHETIC ACCESSORY PROTEINS (PCM-7917342*; 24 MONTHS $80,000

JOHNSON, NED K; *GENETIC-PHENETIC CORRELATES OF AVIAN DIVERSITY (DEB-7920694*; 12 MONTHS $37,500

FRAENKEL-CONRAT, HEINZ L, AND FRAENKEL-CONRAT, BEA; *EFFECTS OF BULKY SUBSTITUENTS ON VIRAL RNA FUNCTION AND ENCAPSIDATION (PCM-7921649*; 24 MONTHS $91,606

ECHOLS, HARRISON; *MECHANISM AND REGULATION OF MUTAGENESIS, DNA REPAIR, CELL DIVISON AND PROPHAGE INDUCTION (PCM-7921724*; 24 MONTHS $80,000

ZUSMAN, DAVID; *REGULATION OF GENE EXPRESSION IN BACTERIA (PCM-7922249*; 12 MONTHS $40,000

WILSON, ALLAN C; *MICRO-COMPLEMENT FIXATION STUDIES OF VERTEBRATE PROTEINS (DEB-7923003*; 12 MONTHS $32,799

JOHNSON, NED K; *OPERATIONAL SUPPORT FOR THE MUSEUM OF VERTEBRATE ZOOLOGY (DEB-7924096*; 12 MONTHS $61,999

DOYEN, JOHN T; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-7924298*; 24 MONTHS $2,461

ARNON, DANIEL I; *ELECTRON TRANSPORT AND PHOSPHORYLATION IN ENERGY TRANSDUCING MEMBRANES (PCM-7925581*; 12 MONTHS $90,000

SAYERS, GEORGE; *HYPOTHALAMIC OLIGOPEPTIDE COMPLEX REGULATING ACTH AND B-ENDORPHIN SECRETION (PCM-8003764*; 12 MONTHS $50,000

SOUSA, WAYNE P; *POPULATION DYNAMICS AND REGIONAL PERSISTENCE OF A GASTROPOD (DEB-8004192*; 24 MONTHS $48,000

WAKE, MARVALEE H; *COMPARATIVE MORPHOLOGY AND SYSTEMATICS OF CAECILIANS (DEB-8005905*; 12 MONTHS $32,000

COLLINS, O'NEIL R; *MYXOMYCETE BIOSYSTEMATICS (DEB-8005999)*; 12 MONTHS $49,141

KOSHLAND, DANIEL E; *BIOCHEMISTRY OF ADAPTIVE RESPONSES (PCM-8006252)*; 12 MONTHS $39,000

DUNCAN, THOMAS O; *WORKSHOP ON THE THEORY AND APPLICATION OF CLADISTIC METHODOLOGY; MARCH 1981, BERKELEY, CALIFORNIA (DEB-8008338)*; 18 MONTHS $28,758

WILLIAMS, ROBLEY C; *ELECTRON MICROSCOPY OF ENZYMES AND OTHER OLIGOMERIC STRUCTURES (PCM-8010650)*; 12 MONTHS $28,000

BURNSIDE, MARY B; *MOTILE MODELS OF TELEOST RETINAL CONES (PCM-8011792)*; 12 MONTHS $50,000

VREELAND, VALERIE J, AND LAETSCH, W M; *CELL WALL ANTIGEN CHANGES DURING THE DEVELOPMENT OF FUCUS EMBRYOS (PCM-8013021)*; 12 MONTHS $54,999

TAYLOR, JOHN W, AND FULLER, MELVIN S; *MITOSIS AND SYSTEMATICS OF BASIDIOMYCOTINA (DEB-8025037)*; 15 MONTHS $25,753

UNIVERSITY OF CALIFORNIA, DAVIS

BENJAMINI, ELIEZER; *GENETIC CONTROL OF ANTIBODIES TO A DEFINED DETERMINANT (PCM-7715927 A02)*; 12 MONTHS $50,000

SEGEL, IRWIN H; *POLYSACCHARIDE METABOLISM OF FUNGI (PCM-7721773 A01)*; 12 MONTHS $28,369

HORWITZ, BARBARA A; *MEMBRANE EVENTS ASSOCIATED WITH REGULATORY NONSHIVERING THERMOGENESIS (PCM-7722076 A02)*; 12 MONTHS $36,746

WELLS, KENNETH; *INTERSTERILITY AND SPECIES DELIMITATION IN HETEROBASIDIOMYCETES (DEB-7725345 A03)*; 12 MONTHS $25,738

CONN, ERIC E; *PHYSIOLOGICAL STUDIES ON CYANOGENESIS IN PLANTS (PCM-7725769 A02)*; 12 MONTHS $50,579

PHILLIPS, DONALD A; *FACTORS LIMITING SYMBIOTIC NITROGEN FIXATION IN LEGUMES (PCM-7801146 A02)*; 12 MONTHS $31,038

ALLARD, ROBERT W; *GENETICS OF PLANT POPULATIONS (DEB-7802046 A02)*; 12 MONTHS $47,994

RAPPAPORT, LAWRENCE; *SUBCELLULAR LOCALIZATION BIOSYNTHESIS AND METABOLISM OF GIBBERELLINS (PCM-7807589 A02)*; 12 MONTHS $32,607

YANG, S F; *BIOSYNTHESIS AND BIOCHEMICAL ACTION OF ETHYLENE (PCM-7809278 A01)*; 12 MONTHS $41,413

CASTELFRANCO, PAUL A; *CHLOROPHYLL BIOSYNTHESIS (PCM-7813250 A01)*; 12 MONTHS $35,600

SEIBER, JAMES N; *COLLABORATIVE RESEARCH ON ECOLOGICAL CHEMISTRY OF CARDENOLIDES IN MILKWEED PLANTS AND MONARCH BUTTERFLIES (DEB-7815419 A02)*; 12 MONTHS $54,619

PREISS, JACK; *STARCH METABOLISM IN LEAF TISSUE AND MAIZE ENDOSPERM (PCM-7816127 A02)*; 12 MONTHS $68,000

JAIN, SUBODH K; *INTERSPECIFIC VARIATON AND EVOLUTION OF BREEDING SYSTEMS IN LIMNANTHES (DEB-7823522 A01)*; 12 MONTHS $34,000

MENKE, JOHN W, JONES, MILTON B, AND WILLIAMS, WILLIAM A; *MOISTURE AND SULFUR IN THE CALIFORNIA ANNUAL GRASSLAND ECOSYSTEM (DEB-7823641 A01)*; 12 MONTHS $23,253

NUCCITELLI, RICHARD L; *ION CURRENTS IN FERTILIZATION AND EARLY DEVELOPMENT (PCM-7826022 A01)*; 12 MONTHS $58,624

BASKIN, RONALD J; *FORCE GENERATION IN STRIATED MUSCLE (PCM-7903256 A01)*; 12 MONTHS $41,494

STUMPF, PAUL K; *ENZYMATIC MECHANISMS INVOLVED IN LIPID METABOLISM IN HIGHER PLANTS (PCM-7903976 A01)*; 12 MONTHS $83,530

SHEPHERD, ROBERT J; *NATURE AND BIOLOGY OF DNA PLANT VIRUSES (PCM-7904960 A01)*; 12 MONTHS $55,000

KYHOS, DONALD W; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-7908608)*; 24 MONTHS $2,805

RICK, CHARLES M, *MAINTENANCE OF TOMATO GENETIC, CHROMOSOMAL, AND SPECIES STOCKS (DEB-7909546 A03)*; 12 MONTHS $36,447

LUCAS, WILLIAM J; *INVESTIGATION OF THE ROLE PLAYED BY CALLOSE (PCM-7910223)*; 12 MONTHS $32,847

GIFFORD, ERNEST M; *A COMPARATIVE STUDY OF APICAL MERISTEMS IN LOWER VASCULAR PLANTS (PCM-7910683 A01)*; $7,216

EPSTEIN, EMANUEL; *COMPARATIVE PHYSIOLOGY OF SALT RELATIONS OF PLANTS (PCM-7911747)*; 12 MONTHS $52,700

GOLDMAN, CHARLES R; *PREDATION AND TROPHIC RELATIONSHIPS IN LAKE TAHOE (DEB-7916221)*; 12 MONTHS $116,935

SEIBER, JAMES N; *INSTRUMENTATION FOR RADIOCHEMICAL ANALYSIS IN ENVIRONMENTAL TOXICOLOGY (DEB-7918703)*; 6 MONTHS $49,364

HAMILTON, WILLIAM J; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-7921645*)*; 24 MONTHS $3,392

PEARCY, ROBERT W; *PHOTOSYNTHETIC ADAPTATION IN THE C4 HAWAIIAN EUPHORBIAS (DEB-7921896)*; 12 MONTHS $45,000

RICHERSON, PETER J; *THE LIMNOLOGY OF LAKE TITICACA (DEB-7921933)*; 12 MONTHS $108,053

GOTTLIEB, LESLIE D; *EVOLUTION OF A DUPLICATE GENE IN DIPLOID SPECIES OF CLARKIA (DEB-7922196)*; 12 MONTHS $40,205

DOI, ROY H; *CONTROL MECHANISMS IN BACTERIAL DIFFERENTIATION (PCM-7924872)*; 12 MONTHS $46,000

DEAMER, DAVID W; *ACYL TRANSFERASE AND MEMBRANE SYNTHESIS (PCM-8001953)*; 24 MONTHS $70,000

HASTINGS, ALAN M; *PREDATOR-PREY SYSTEMS AND EVOLUTION OF ECOLOGICAL PARAMETERS (DEB-8002593)*; 36 MONTHS $46,406

ERICKSON, CAROL A; *ROLE OF MATRIX AND CELL SURFACE NEURAL CREST CELL MORPHOGENESIS (PCM-8004524)*; 12 MONTHS $40,337

CROWE, JOHN H; *ANHYDROBIOSIS IN LOWER ANIMALS (PCM-8004720)*; 12 MONTHS $50,206

RICK, CHARLES M; *GENETIC AND SYSTEMATIC STUDIES IN TOMATO SPECIES (DEB-8005542)*; 24 MONTHS $72,823

GILCHRIST, DAVID G, BOTTINI, ALBERT T, AND PRATT, DAVID; *MOLECULAR ASPECTS OF DISEASE STRESS IN HIGHER PLANTS (PCM-8011793)*; 12 MONTHS $25,000

UNIVERSITY OF CALIFORNIA, IRVINE-CALIFORNIA COLLEGE OF MEDICINE

WHITE, STEPHEN H; *PHYSICAL CHEMISTRY OF PLANAR BILAYER MEMBRANES (PCM-7812330 A03)*; 12 MONTHS $41,500

UNIVERSITY OF CALIFORNIA, IRVINE

BENNETT, ALBERT F; *METABOLISM AND ACTIVITY (PCM-7724908 A02)*; 12 MONTHS $33,400

NUNN, WILLIAM D; *ROLE OF THE THIOESTERASE IN FATTY ACID METABOLISM (PCM-7727140 A01)*; 12 MONTHS $42,435

WASMUTH, JOHN J; *ANIMAL CELL PROTEIN SYNTHETIC MUTANTS (PCM-7808210 A02)*; 12 MONTHS $75,000

HATFIELD, G W; *REGULATION OF ISOLEUCINE-VALINE GENE EXPRESSION (PCM-7808564 A02)*; 12 MONTHS $45,000

STEPHENS, GROVER C; *AMINO ACID TRANSPORT IN LARVAL AND ADULT BIVALVE MOLLUSCS (PCM-7808576 A01)*; 24 MONTHS $76,500

TEWARI, KRISHNA K; *BIOGENESIS OF CELL ORGANELLES (PCM-7906434 A01)*; 12 MONTHS $47,000

HAYES, SIDNEY J; *GENETIC BASIS OF BOTULISM PHAGE TOXICITY (PCM-7922693)*; 24 MONTHS $80,000

BRANT, DAVID A; *CONFORMATIONAL ANALYSIS OF POLYSACCHARIDES (PCM-7923041)*; 12 MONTHS $40,000

MAC MILLEN, RICHARD E; *WATER AND ENERGY REGULATION IN HETEROMYID RODENTS (DEB-7923808)*; 12 MONTHS $69,380

GOLDSMITH, MARIAN R; *WEST COAST REGIONAL DEVELOPMENTAL BIOLOGY CONFERENCE PACIFIC GROVE, CALIFORNIA (PCM-8003876)*; 12 MONTHS $2,496

RODRIGUEZ, ELOY, AND HEALEY, PATRICK L; *SYMPOSIUM ON BIOLOGY AND CHEMISTRY OF PLANT TRICHOMES UNIVERSITY BRITISH COLUMBIA - JULY 11-16, 1980 VANCOUVER, B. C., CANADA (PCM-8007018*)*; 12 MONTHS $6,000

HELD, LEWIS I; *BRISTLE-PATTERN FORMATION IN DROSOPHILA DEVELOPMENT (PCM-8011777)*; 12 MONTHS $33,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES-SCHOOL OF MEDICINE

EISENMAN, GEORGE; *MOLECULAR BASIS OF ION TRANSPORT ACROSS LIPID MEMBRANES (PCM-7620805 A04)*; 12 MONTHS $54,000

WALL, RANDOLPH; *RNA PROCESSING IN IMMUNOGLOBULIN HEAVY CHAIN GENE SWITCHING AND DELETION VARIANTS (PCM-7924876)*; 12 MONTHS $60,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

RITTENBERG, SYDNEY C; *PHYSIOLOGY, BIOCHEMISTRY AND STRUCTURE OF BDELLOVIBRIO BACTERIOVORUS (PCM-7518883 A05)*; $69,200

BOYER, PAUL D; *ENERGY-TRANSDUCING MECHANISMS IN CONTRACTION AND ACTIVE TRANSPORT (PCM-7518884 A04)*; 12 MONTHS $50,000

LAKE, JAMES A; *RIBOSOME FUNCTION AND THREE DIMENSIONAL STRUCTURE (PCM-7614718 A03)*; 12 MONTHS $56,000

LASCELLES, JUNE; *REGULATION OF TETRAPYRROLE SYNTHESIS AND ASSOCIATED COMPLEXES (PCM-7684901 A02)*; 12 MONTHS $39,300

SCHUMAKER, VERNE N; *MOLECULAR FLEXIBILITY AND THE ACTIVATION OF THE FIRST COMPONENT OF COMPLEMENT (PCM-7717577 A02)*; 12 MONTHS $30,000

GORDON, MALCOLM S; *ADAPTIVE FEATURES OF THE ACTIVITY METABOLISM OF MARINE FISHES (PCM-7723905 A02)*; 12 MONTHS $30,121

BARTHOLOMEW, GEORGE A; *ECOLOGICAL PHYSIOLOGY AND BEHAVIOR (DEB-7909174 A02)*; 12 MONTHS $30,000

O'CONNOR, JOHN D; *HORMONE BINDING IN DROSOPHILA CELL LINES (PCM-7805471 A02*)*; 12 MONTHS $40,000

GRALLA, JAY D; *RNA METABOLISM IN TUMOR VIRUS SV40 INFECTED CELLS (PCM-7805818 A01)*; 12 MONTHS $30,000

THORNBER, J P; *NATURE OF CHLOROPHYLL IN VIVO (PCM-7815835 A02)*; 12 MONTHS $38,000

WEISS, RICHARD L; *AMINO ACID COMPARTMENTATION IN NEUROSPORA (PCM-7819090 A01)*; 12 MONTHS $34,400

ZABIN, IRVING; *CHARACTERIZATION AND PROPERTIES OF BETA-GALACTOSIDASE FUSION PROTEINS (PCM-7819974 A01)*; 12 MONTHS $35,000

GOLDBERG, ROBERT B; *GENOME ORGANIZATION AND EXPRESSION IN HIGHER PLANTS (PCM-7822321 A01)*; 12 MONTHS $60,113

GOLDBERG, ROBERT B; *GENOME ORGANIZATION AND EXPRESSION IN HIGHER PLANTS (PCM-7822321 A02)*; $16,506

NAYAK, DEBI P; *INTERFERENCE BY DEFECTIVE INFLUENZA VIRUSES (PCM-7823220 A01)*; 12 MONTHS $53,000

CHAPMAN, DAVID J; *STEROL BIOSYNTHESIS IN PROKARYOTES (PCM-7825852)*; 12 MONTHS $40,911

WILCOX, GARY L; *MOLECULAR BASIS OF CONTROL IN THE L-ARABINOSE SYSTEM (PCM-7826255 A01)*; 12 MONTHS $55,000

NOBEL, PARK S; *THERMAL ASPECTS OF THE DISTRIBUTION OF CACTI (DEB-7826736)*; 12 MONTHS $20,000

GONZALEZ, ELMA; *TOWARDS THE SYNTHESIS AND ASSEMBLY OF ORGANELLAR COMPONENTS IN THE CASTOR BEAN (PCM-7904277 A01)*; 12 MONTHS $48,298

SALSER, WINSTON A; *ANALYSIS OF HUMAN HIGHLY REPETITIVE DNA (PCM-7905627 A01)*; 12 MONTHS $30,000

MARTINSON, HAROLD G; *CHROMATIN STRUCTURE (PCM-7910654 A01)*; 12 MONTHS $100,000

COLLIER, ROBERT J; *ISOLATION AND NUCLEOTIDE SEQUENCING OF THE STRUCTURAL GENE FOR DIPHTHERIA TOXIN (PCM-7910684)*; 12 MONTHS $50,000

TOBIN, ALLAN J, AND MARTINSON, HAROLD G; *GLOBIN GENE EXPRESSION IN ERYTHROID DEVELOPMENT (PCM-7911646)*; 12 MONTHS $80,000

SCHOPF, J WILLIAM; *PRECAMBRIAN PALEOBIOLOGY (DEB-7911777*)*; 12 MONTHS $30,291

FAIN, MARGERY J; *CONTROL OF PROLIFERATION IN DROSOPHILA CELLS IN VIVO (PCM-7923055)*; 24 MONTHS $80,000

WEST, CHARLES A; *REGULATION OF ISOPRENOID BIOSYNTHESIS IN HIGHER PLANTS (PCM-7921142)*; 12 MONTHS $55,282

WALKER, DAN B; *CELL TO CELL INTERACTIONS IN DEVELOPING EPIDERMI IN PLANTS (PCM-7923490)*; 24 MONTHS $80,000

STROUSE, CHARLES E; *MOLECULAR TRANSFORMATIONS IN THE SOLID STATE (CHE-7950002 A05*)*; 12 MONTHS $20,300

OLSON, EVERETT C; *THE ARROYO FORMATION (PERMIAN); ITS FAUNA AND PALEOECOLOGY (DEB-8000922*)*; 24 MONTHS $23,876

FOX, C F; *CONFERENCE ON DNA REPLICATION AND GENETIC RECOMBINATION, MARCH 16-21, 1980, KEYSTONE, CO (PCM-8002632)*; 6 MONTHS $1,270

EISENBERG, DAVID D; *STRUCTURAL STUDIES OF MELITTIN, A MEMBRANE-RELATED PROTEIN (PCM-8003725)*; 24 MONTHS $85,000

GLITZ, DOHN G; *ANTI-HAPTEN ANTIBODIES AS PROBES OF RIBOSOME STRUCTURE (PCM-8016598)*; 12 MONTHS $50,000

UNIVERSITY OF CALIFORNIA, RIVERSIDE

GORDH, GORDON; *SYSTEMATIC REVISION OF NEARCTIC ENCYRTIDAE (DEB-7805397 A01)*; 12 MONTHS $14,397

SEMANCIK, JOSEPH S; *SMALL PATHOGENIC RNA (VIROID) AND CELL REGULATION (PCM-7813622 A01)*; 12 MONTHS $44,000

NOLTMANN, ERNST A; *ROLE OF CARBONIC ANHYDRASE IN MUSCLE (PCM-7816095 A01)*; 12 MONTHS $30,000

SHERMAN, IRWIN W; *MEMBRANE STUDIES WITH MALARIAL PARASITES (PCM-7822126 A01)*; 12 MONTHS $54,641

REID, BRIAN R; *STRUCTURE AND FUNCTION OF TRANSFER RNA (PCM-7902904 A01)*; 12 MONTHS $50,000

BAGINSKI, RICHARD M; *INTRACELLULAR FREE AMINO ACID ACCUMULATION IN EURYHALINE INVERTEBRATES (PCM-7906515)*; 24 MONTHS $43,801

WEDDING, RANDOLPH T; *MALATE AS A CENTRAL POINT OF CONTROL FOR PLANT METABOLISM (PCM-7910449)*; 12 MONTHS $39,258

SHANNON, LELAND M, AND HANKINS, CHARLES N; *BIOCHEMISTRY AND PHYSIOLOGY OF PLANT LECTINS (PCM-7910450 A01)*; 12 MONTHS $40,000

SASSAMAN, CLAY A; *NATURAL SELECTION AND POPULATION STRUCTURE IN PORCELLIO SCABER (DEB-7911776)*; 24 MONTHS $60,000

WAINES, J G; *MORPHOLOGICAL AND CHEMOSYSTEMATIC STUDIES IN TRITICUM (DEB-7912198 A01)*; $8,000

PINTO, JOHN D; *SYSTEMATICS OF NORTH AMERICAN EPICAUTA (MELOIDAE: COLEOPTERA) (DEB-7915907)*; 12 MONTHS $23,871

DAWSON, WILLIAM O; *GENE EXPRESSION AND REGULATION OF RNA PLANT VIRUSES (PCM-7921664)*; 24 MONTHS $80,074

LEWIS, LOWELL N; *MECHANISM OF CELLULASE: TRANSPORT AND SECRETION DURING ABSCISSION (PCM-7921762)*; 24 MONTHS $80,000

TAYLOR, O CLIFTON; *SYMPOSIUM ON EFFECTS OF AIR POLLUTANTS ON MEDITERRANEAN AND TEMPERATE FOREST ECOSYSTEMS, RIVERSIDE, CA; JUNE 22-28, 1980 (DEB-7921965)*; 6 MONTHS $13,990

JARRELL, WESLEY M; *NITROGEN FIXATION IN LEGUME-DOMINATED DESERT ECOSYSTEMS (DEB-7921971)*; 12 MONTHS $224,485

KARU, ALEXANDER E; *IMMUNO-BIOCHEMICAL STUDIES OF E. COLI RECBC ENZYME (PCM-7922987)*; 12 MONTHS $51,000

BRUNER, LEON J; *MEMBRANE TRANSPORT AT HIGH PRESSURE (PCM-7926672)*; 24 MONTHS $70,000

LUDDEN, PAUL W; *ENZYMES INVOLVED IN REGULATION OF NITROGENASE ACTIVITY (PCM-8003453*)*; 12 MONTHS $45,000

FRENCH, ALAN R; *THE ENERGETICS AND TIMING OF MAMMALIAN HIBERNATION (DEB-8003513)*; 12 MONTHS $29,534

THOMSON, WILLIAM W; *DEVELOPMENT, STRUCTURE, AND FUNCTION OF SALT GLANDS (PCM-8003779)*; 12 MONTHS $49,987

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCHOOL OF MEDICINE

INSEL, PAUL A; *REGULATION OF BETA-ADRENERGIC RECEPTORS AND RESPONSE (PCM-7823352 A01)*; 12 MONTHS $69,917

ROSENFELD, MICHAEL G; *HORMONAL REGULATION OF PANCREATIC PROTEIN SYNTHESIS (PCM-7911505)*; 12 MONTHS $64,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

NEWMAN, WILLIAM A; *SYSTEMATICS OF THE CIRRIPEDIA (DEB-7815052 A01)*; 12 MONTHS $24,771

HAMMEL, HAROLD T; *OSMOREGULATORY RESPONSES TO ALTERED PLASMA CONCENTRATIONS (PCM-7823460 A01)*; 12 MONTHS $39,800

WHITE, FRED N; *CARDIORESPIRATORY REGULATION IN VERTEBRATES (PCM-7905052 A01)*; 12 MONTHS $83,300

GRAHAM, JEFFREY B; *PHYSIOLOGICAL ADAPTATION IN THE FISH SYNBRANCHUS MARMORATUS (DEB-7912235)*; 24 MONTHS $47,000

ACKERMAN, RALPH A; *AVIAN BODY TEMPERATURE REGULATION (PCM-7916256)*; 24 MONTHS $87,500

LEWIN, RALPH A; *ABSCISSION OF CILIA OR FLAGELLA: ITS INDUCTION AND CONTROL (PCM-8002353)*; 12 MONTHS $43,385

NEALSON, KENNETH H; *ENERGY TRANSFER IN BACTERIAL BIOLUMINESCENCE: PROPERTIES AND ROLE OF YELLOW FLUORESCENT PROTEIN IN PHOTOBACTERIUM FISCHERI (PCM-8006991)*; 24 MONTHS $49,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

STERN, HERBERT; *REGULATORY MECHANISMS IN MEIOSIS AND MITOSIS (PCM-7609660 A04)*; 12 MONTHS $100,000

GOULD-SOMERO, MEREDITH; *POLYSPERMY-PREVENTING MECHANISMS (PCM-7684552 A03)*; $7,926

KENNEDY, IAN T; *CHARACTERIZATION OF STRATEGIC NUCLEOTIDE SEQUENCES IN THE ALPHAVIRUS GENOME (PCM-7719383 A02)*; 12 MONTHS $63,000

NGUYEN-HUU, XUONG; *LOW TEMPERATURE AND HIGH RESOLUTION PROTEIN CRYSTALLOGRAPHY (PCM-7722495 A02)*; 12 MONTHS $40,000

GEIDUSCHEK, E PETER; *TRANSCRIPTIONAL REGULATION (PCM-7725396 A02)*; 12 MONTHS $45,000

SIMON, MELVIN I; *MECHANISM OF TOXIN RESISTANCE IN MAMMALIAN CELLS IN TISSUE CULTURE (PCM-7726862 A02)*; 12 MONTHS $80,000

SCHEFFLER, IMMO E; *CHARACTERIZATION OF RESPIRATION-DEFICIENT CHINESE HAMSTER CELLS IN CULTURE (PCM-7808973 A02)*; 12 MONTHS $60,000

CHRISPEELS, MAARTEN J; *ROLE OF THE ENDOPLASMIC RETICULUM AND OF LONG-LIVED MRNA (PCM-7811083 A01)*; 12 MONTHS $58,630

ALLISON, WILLIAM S; *CROSS-LINKING OF MONO-NE-NITROARYL AZIDE DERIVATIVES OF CYTOCHROME C TO PROTEINS THAT PARTICIPATE IN ELECTRON TRANSFER REACTIONS WITH IT (PCM-7812467 A01)*; 12 MONTHS $25,000

FEHER, GEORGE, AND OKAMURA, MELVIN Y; *PRIMARY PROCESSES IN BACTERIAL PHOTOSYNTHESIS (PCM-7813699 A02)*; 12 MONTHS $88,000

BRODY, STUART; *EARLY BIOCHEMICAL EVENTS IN GERMINATION (PCM-7816285 A01)*; 24 MONTHS $75,000

FIRTEL, RICHARD A; *ANALYSIS OF DEVELOPMENTALLY REGULATED GENES IN DICTYOSTELIUM (PCM-7821773 A01)*; 12 MONTHS $50,000

KYTE, JACK E; *CHEMICAL APPROACHES TO A DETERMINATION OF THE MOLECULAR STRUCTURE OF (NA++K+) ADENOSINE TRIPHOSPHATASE (PCM-7824284 A01)*; 12 MONTHS $30,000

LOOMIS, WILLIAM F; *GENETIC REGULATION OF DEVELOPMENT IN DICTYOSTELIUM (PCM-7902698 A01)*; 12 MONTHS $53,000

BUTLER, WARREN L; *PHOTOCHEMICAL MECHANISMS OF PHOTOSYNTHESIS (PCM-7903987 A01)*; 12 MONTHS $75,000

SIMON, MELVIN I; *BIOSYNTHESIS OF SUBCELLULAR STRUCTURES (PCM-7904403 A01)*; 15 MONTHS $130,000

HELINSKI, DONALD R; *DUPLICATION OF CIRCULAR GENETIC ELEMENTS (PCM-7904635 A01)*; 12 MONTHS $80,000

GILPIN, MICHAEL; *STUDIES IN DIFFUSE MULTISPECIES COMPETITION (DEB-7905085 A01)*; 12 MONTHS $41,500

WILLS, C J; *FUNCTIONAL ALTERATIONS IN YEAST ALCOHOL DEHYDROGENASE (PCM-7905629 A01)*; 12 MONTHS $40,000

KEARNS, DAVID R; *STRUCTURAL AND DYNAMIC PROPERTIES OF NATURAL AND SYNTHETIC DNA'S (PCM-7911571)*; 12 MONTHS $55,000

KRAUT, JOSEPH, AND POULOS, THOMAS L; *THREE-DIMENSIONAL STRUCTURE AND FUNCTION OF ELECTRON TRANSPORT ENZYMES (PCM-7914595 A01)*; 12 MONTHS $60,000

DENNIS, EDWARD A; *PHOSPHOLIPASE A2 AND MIXED MICELLES OF PHOSPHOLIPID AND SURFACTANT (PCM-7922839)*; 12 MONTHS $41,000

MILLER, ARNOLD L; *LYSOSOMAL ENZYMES IN DICTYOSTELIUM DISCOIDEUM (PCM-7922887)*; 24 MONTHS $80,000

SATO, GORDON H; *SYSTEMIC PRIMARY CULTURE OF NORMAL TISSUES (PCM-7923090)*; 24 MONTHS $100,000

MILLS, STANLEY E; *A FERMENTOR FOR BACTERIAL GROWTH (PCM-7923470)*; 12 MONTHS $48,694

BRADBURY, JACK W; *ECOLOGICAL FACTORS IN AVIAN SPACING PATTERNS (BNS-7923524*)*; 36 MONTHS $36,427

DELUCA, MARLENE, AND MCELROY, W D; *INTERNATIONAL SYMPOSIUM ON LUMINESCENCE; AUGUST 26-29, 1980; LA JOLLA, CALIFORNIA (PCM-7923854*)*; 12 MONTHS $3,000

PATTON, STUART J; *A STUDY OF THE MECHANISMS BY WHICH CONCANAVALIN A INHIBITS MILK SECRETION (PCM-7927252)*; 24 MONTHS $81,375

BRADBURY, JACK W; *EVOLUTION OF COOPERATIVE BEHAVIOR (DEB-8001165*)*; 12 MONTHS $24,605

SOMERO, GEORGE N; *PRESSURE, TEMPERATURE AND SOLUTE EFFECTS ON PROTEIN ASSEMBLY AND ENZYMATIC CATALYSIS: A MECHANISTIC AND EVOLUTIONARY ANALYSIS (PCM-8001949)*; 12 MONTHS $45,000

GOULD-SOMERO, MEREDITH; *MECHANISM IN POLYSPERMY PREVENTION AND EGG ACTIVATION (PCM-8003759)*; 12 MONTHS $75,000

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO-SCHOOL OF MEDICINE

MORALES, MANUEL F; *CONTRACTILE SYSTEMS (PCM-7522698 A06)*; 12 MONTHS $50,000

PRUSINER, STANLEY; *BIOCHEMICAL STUDIES OF THE SCRAPIE AGENT IN CELL CULTURE (PCM-7724076 A02)*; 12 MONTHS $34,600

ZAKIM, DAVID; *REGULATION OF MICROSOMAL ENZYMES BY PHOSPHOLIPIDS (PCM-7817706 A01)*; 12 MONTHS $47,152

HAYASHIDA, TETSUO; *COMPARATIVE IMMUNOCHEMICAL AND BIOLOGICAL STUDIES WITH PITUITARY GROWTH HORMONE AND PROLACTIN (PCM-7826205 A01)*; 12 MONTHS $45,675

LIE, KIAN JOE; *CELLULAR DEFENSE REACTION IN BIOMPHALARIA GLABRATA: ULTRASTRUCTURAL STUDIES (PCM-8015833)*; 12 MONTHS $43,843

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

LINSCOTT, WILLIAM D; *ROLE OF C3 IN THE AB RESPONSE (PCM-7681215 A02)*; 12 MONTHS $45,000

STROUD, ROBERT M; *PROTEIN-LIPID AND PROTEIN-NUCLEIC ACID INTERACTIONS (PCM-7725407 A02)*; 12 MONTHS $50,000

EDMONDSON, DALE E; *ROLE OF 8A FLAVINS IN FLAVOENZYME CATALYSIS (PCM-7805382 A01)*; $3,000

COFFINO, PHILIP, AND BOURNE, HENRY R; *GROWTH REGULATION BY CYCLIC AMP (PCM-7807382 A02)*; 12 MONTHS $105,000

CORDELL, BARBARA, AND GOODMAN, HOWARD M; *EUKARYOTIC TRNA GENES: STRUCTURE, BIOSYNTHESIS AND SUPPRESSION (PCM-7808950 A01)*; 12 MONTHS $38,868

KEARNEY, EDNA B; *RIBOFLAVIN TRANSPORT, METABOLISM, AND CONVERSION TO COVALENTLY BOUND FLAVINS (PCM-7822935 A01)*; 12 MONTHS $30,000

MCCARTHY, BRIAN J; *MULTIGENE FAMILIES IN DROSOPHILA (PCM-7823277 A01)*; 12 MONTHS $60,394

SINGER, THOMAS P; *STRUCTURE, REGULATION AND MECHANISM OF ACTION OF MITOCHONDRIAL ENZYMES (PCM-7823716 A01)*; 12 MONTHS $42,000

O'FARRELL, PATRICK H; *MOLECULAR ANALYSIS OF HOMOEOTIC MUTATIONS (PCM-7825677 A01)*; 12 MONTHS $55,000

SEDAT, JOHN W; *MONOCLONAL ANTIBODY LIBRARY TO DROSOPHILA NUCLEAR PROTEINS (PCM-7905761 A01)*; 12 MONTHS $90,000

FLETTERICK, ROBERT J, AND STROUD, ROBERT M; *EQUIPMENT FOR DESIGN OF A DETECTOR (PCM-7911490)*; 12 MONTHS $40,000

GUTHRIE, CHRISTINE; *SPECIFICITY AND REGULATIONS OF TRNA PROCESSING ENZYMES (PCM-7912081 A01)*; 12 MONTHS $41,083

MARTIN, DAVID W; *MODELS FOR INHERITED PURINE AND IMMUNE DISORDERS (PCM-7920358)*; 12 MONTHS $40,000

RUTTER, WILLIAM J; *STRUCTURE AND TRANSCRIPTION OF YEAST TRNA GENES (INT-7920793*)*; 20 MONTHS $10,000

ALBERTS, BRUCE M, AND HEFFRON, FRED; *MOLECULAR MECHANISM OF TRANSPOSITION (PCM-7923858)*; 12 MONTHS $55,000

EDMONDSON, DALE E; *STRUCTURE AND ROLE OF COVALENT PHOSPHORUS RESIDUES IN AZOTOBACTER FLAVODOXIN (PCM-8001913)*; 12 MONTHS $42,000

FLETTERICK, ROBERT J; *MACROMOLECULAR STRUCTURAL STUDIES (PCM-8001950)*; 12 MONTHS $150,000

LOWENSTEIN, JEROLD M; *SPECIES-SPECIFIC PROTEINS IN FOSSILS (DEB-8002388)*; 12 MONTHS $30,000

COLBY, DIANE S; *CONTROL OF EXPRESSION OF YEAST TRNA GENES (PCM-8004607)*; 24 MONTHS $79,941

LAN, NANCY T Y, AND BAXTER, JOHN D; *MECHANISMS OF GLUCOCORTICOID RECEPTOR FUNCTION (PCM-8004735)*; 12 MONTHS $50,641

MCCARTHY, BRIAN J, AND SILBERLANG, MELVIN; *STRUCTURE AND EXPRESSION OF DROSOPHILA + RNA GENES (PCM-8006272)*; 12 MONTHS $50,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

CONNELL, JOSEPH H; *STUDIES ON THE DIVERSITY OF TROPICAL AND SUBTROPICAL ECOLOGICAL COMMUNITIES (DEB-7683013 A01)*; 6 MONTHS $12,947

TRENCH, ROBERT K; *INTERCELLULAR RECOGNITION PHENOMENA AND THEIR ROLE IN ESTABLISHING SPECIFICITY IN MUTUALISTIC INTRACELLULAR SYMBIOSES (PCM-7815209 A01)*; 12 MONTHS $30,426

CRONSHAW, JAMES, AND HOLMES, WILLIAM N; *FUNCTIONAL SIGNIFICANCE OF INTERRENAL CELL ZONATION (PCM-7915777)*; 24 MONTHS $79,501

ESAU, KATHERINE, AND CHEADLE, VERNON I; *COMPARATIVE ANATOMY AND CYTOLOGY OF THE PHLOEM OF DICOTYLEDONS (DEB-7918833)*; 36 MONTHS $50,093

CHEADLE, VERNON I; *VESSEL EVOLUTION AND TAXONONOMIC IMPLICATIONS IN MONOCOTYLEDONS (DEB-7918834)*; 36 MONTHS $28,145

GIBOR, AHARON, AND SOLTER, KENNETH M; *PHYSIOLOGY OF FLAGELLA (PCM-7921653)*; 24 MONTHS $98,001

MURDOCH, WILLIAM W; *THE DYNAMICAL STRUCTURE OF ECOLOGICAL COMMUNITIES (DEB-7922131)*; 12 MONTHS $59,860

WARNER, ROBERT; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-7925899)*; 12 MONTHS $3,965

BRUICE, THOMAS C; *COFACTOR CATALYZED REACTIONS (PCM-8004816)*; 12 MONTHS $43,000

HOLMES, WILLIAM N; *EFFECTS OF TOXIC METABOLITES DERIVED FROM INGESTED PETROLEUM ON SOME HORMONAL REGULATING MECHANISMS IN SEABIRDS (DAR-8007865*)*; 36 MONTHS $25,000

CONNELL, JOSEPH H; *TROPICAL AND SUBTROPICAL COMMUNITIES DIVERSITY (DEB-8011123)*; 24 MONTHS $100,000

BOTKIN, DANIEL B; *CLIMATE VS BIOTIC FACTORS IN THE HISTORY OF FOREST ECOSYSTEMS (DED-8012159)*; 12 MONTHS $106,063

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

THIMANN, KENNETH V; *BIOCHEMICAL CHANGES DURING LEAF SENESCENCE (PCM-7683196 A02)*; 12 MONTHS $29,305

LE BOEUF, BURNEY J; *BIOLOGICAL STUDIES OF THE NORTHERN ELEPHANT SEAL (DEB-7717063 A03)*; 12 MONTHS $30,200

TAIZ, LINCOLN; *REGULATION OF WALL EXTENSIBILITY AND CELL EXPANSION IN PLANTS (PCM-7725216 A01)*; $5,000

EDGAR, ROBERT S; *A GENETIC AND BIOCHEMICAL STUDY OF CUTICLE FORMATION IN THE NEMATODE CAENORHABDITIS ELEGANS (PCM-7809439 A02)*; 12 MONTHS $60,001

LANGENHEIM, JEAN H; *COMPARATIVE SYSTEMATIC AND CHEMICAL STUDIES OF THE AMBER PRODUCING GENERA HYMENAEA AND COPAIFERA (DEB-7810645 A02)*; 12 MONTHS $40,000

BEEVERS, HARRY; *ASPECTS OF PLANT METABOLISM (PCM-7819575 A01)*; 12 MONTHS $75,700

FINK, ANTHONY L; *LOW-TEMPERATURE TRAPPING OF INTERMEDIATES IN ENZYME-CATALYZED REACTIONS (PCM-7822892 A01)*; 12 MONTHS $35,000

FINK, ANTHONY L; *PROTEIN STRUCTURE AND FOLDING AT LOW TEMPERATURES (PCM-7913769)*; 12 MONTHS $36,500

TAIZ, LINCOLN; *REGULATION OF CELL EXPANSION IN PLANTS (PCM-8001168)*; 12 MONTHS $70,224

GOFF, LYNDA J; *HOST-SPECIFICITY IN PARASITIC RED ALGAE (PCM-8003130)*; 24 MONTHS $83,872

FINK, ANTHONY L; *CONSTRUCTION OF A CRYSTAL MICROSPECTROPHOTOMETER (PCM-8003443)*; 12 MONTHS $50,289

UNIVERSITY OF SAN FRANCISCO

COBLEY, JONATHAN G; *CHANGES IN MEMBRANE PERMEABILITY MEDIATED BY PHYTOCHROME AND ADAPTOCHROMES (PCM-7816096 A01)*; $1,430

CHIHARA, CAROL J; *DEVELOPMENTAL GENETICS OF DROSOPHILA CUTICLE PROTEINS (PCM-7822516 A01)*; 12 MONTHS $28,716

UNIVERSITY OF SOUTHERN CALIFORNIA-SCHOOL OF MEDICINE

WOOD, RICHARD L; *THE ROLE OF A SPECIALIZED CELL JUNCTION IN NEMATOCYTE POSITIONING IN HYDRA (PCM-8007673)*; 24 MONTHS $60,000

UNIVERSITY OF SOUTHERN CALIFORNIA

STEPHENS, PHILIP J, AND MCKENNA, CHARLES E; *CHIROPTICAL SPECTROSCOPY OF NITROGENASE (PCM-7717637 A03)*; 12 MONTHS $42,000

SULLIVAN, CORNELIUS W; *THE MECHANISM OF SILICIFICATION IN DIATOMS (PCM-7726469 A01)*; 24 MONTHS $80,000

STEPHENS, PHILIP J; *EQUIPMENT FOR DICHROISM STUDIES (PCM-7916535*)*; 12 MONTHS $25,000

TSUJI, FREDERICK I; *BIOCHEMICAL STUDIES OF BIOLUMINESCENCE (PCM-7921658)*; 12 MONTHS $52,000

ZOECON CORPORATION

SCHOOLEY, DAVID A; *INSECT JUVENILE HORMONES - PHYSIOLOGICAL TITERS, BIOSYNTHESIS AND REGULATION, AND A SEARCH FOR A NEW HORMONE (PCM-8012027)*; 12 MONTHS $112,000

COLORADO

COLORADO STATE UNIVERSITY

BAKER, MYRON C; *VOCAL COMMUNICATION AND GENETIC POPULATION STRUCTURE (DEB-7822657 A01)*; 12 MONTHS $38,840

WOODMANSEE, ROBERT G; *ADDITIONS, LOSSES AND TRANSFORMATIONS OF NITROGEN IN GRASSLANDS ECOSYSTEMS (DEB-7908009 A01)*; 12 MONTHS $243,575

PACKARD, GARY C; *MORPHOLOGY, PHYSIOLOGY, AND EVOLUTION OF THE CLEIDOIC EGG (DEB-7911546)*; 12 MONTHS $35,119

RALPH, CHARLES L; *ACQUISITION OF A DATA LOGGING SYSTEM (DEB-7921874*)*; 12 MONTHS $10,295

RALPH, CHARLES L; *PINEAL COMPLEX AND THERMOREGULATION (PCM-8003835)*; 12 MONTHS $49,000

ELLIS, JAMES E; *THE ECOLOGY OF SUBSISTENCE PASTORALISM (DEB-8004182*)*; 12 MONTHS $144,709

COLEMAN, DAVID C; *SOIL, ROOT, AND MICROORGANISM INTERACTIONS AFFECTING NUTRIENT TRANSFORMATIONS IN SEMI-ARID GRASSLANDS (DEB-8004193)*; 12 MONTHS $296,930

ROCKY MOUNTAIN BIOLOGICAL LABORATORY

INOUYE, DAVID W, AND TAYLOR, ORLEY R; *THE ROLE OF POLLINATOR EFFECTIVENESS IN PLANT POPULATION DYNAMICS (DEB-7807784 A03)*; 12 MONTHS $27,248

UNIVERSITY OF COLORADO AT BOULDER

MC INTOSH, J RICHARD; *FORMATION AND FUNCTION OF THE MITOTIC SPINDLE (PCM-7714796 A03)*; $10,675

CARUTHERS, MARVIN H; *REGULATION OF GENE EXPRESSION IN BACTERIOPHAGE LAMBDA (PCM-7720618 A02)*; 12 MONTHS $29,000

GAMOW, R; *MECHANICAL PROPERTIES OF THE LIVING CELL WALL (CPE-7803353 A03*)*; 6 MONTHS $2,500

SMITH, HOBART M, AND SMITH, ROZELLA B; *A SYNOPSIS OF MEXICAN HERPETOLOGY (DEB-7809938 A03)*; 12 MONTHS $31,795

FALL, R R; *STRUCTURE AND FUNCTION IN BIOTIN ENZYMES (PCM-7825518 A01)*; 12 MONTHS $20,000

ALBERSHEIM, PETER; *COLLABORATIVE RESEARCH ON CHARACTERIZATION OF THE RHIZOBIUM CELL SURFACE COMPONENTS (PCM-7904491 A01)*; 12 MONTHS $50,000

PICKETT-HEAPS, JEREMY D; *A HIGH RESOLUTION TRANSMISSION ELECTRON MICROSCOPE (PCM-7915903)*; 12 MONTHS $125,000

GRANT, MICHAEL C; *PATTERNS OF GENETIC VARIATION AND PHYLOGENY IN CHAROPHYTA (DEB-7915229)*; 24 MONTHS $80,705

PICKETT-HEAPS, JEREMY D; *CELL DIVISION, MORPHOGENESIS AND PHYLOGENY IN DIATOMS AND GREEN ALGAE (DEB-7922200)*; 12 MONTHS $49,998

CAREY, CYNTHIA; *EMBRYONIC ADAPTATION TO ATMOSPHERIC STRESS (DEB-7923403)*; 24 MONTHS $70,000

BEKOFF, MARC; *SOCIAL ECOLOGY OF FREE-RANGING COYOTES (BNS-7921463*)*; 12 MONTHS $17,143

JONES, RICHARD E; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8001963)*; 12 MONTHS $3,860

LEWIS, WILLIAM M; *ECOSYSTEM ANALYSIS OF LAKE VALENCIA, VENEZUELA (DEB-8003883)*; 12 MONTHS $238,590

SUEOKA, NOBORU; *STRUCTURE OF THE REPLICATION ORIGIN OF BACILLUS SUBTILIS CHROMOSOME (PCM-8011549)*; 12 MONTHS $40,000

WEBBER, PATRICK J; *ECOLOGICAL PATTERNS AND PROCESSES IN ALPINE ECOSYSTEMS OF COLORADO (DEB-8012095*)*; 12 MONTHS $250,000

MC INTOSH, J RICHARD; *STUDIES ON THE FORMATION AND FUNCTION OF THE MITOTIC SPINDLE (PCM-8014549)*; 12 MONTHS $55,000

UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER

PETTIJOHN, DAVID E; *ROLE OF SPECIFIC NON-HISTONE CHROMOSOMAL PROTEINS IN CHROMOSOME STRUCTURE (PCM-7921406)*; 12 MONTHS $45,000

JONES, CAROL; *GENETICS OF CELL SURFACE ANTIGENS (PCM-8001196)*; 24 MONTHS $114,000

UNIVERSITY OF DENVER

WICKSTROM, ERIC; *MOLECULAR RULERS FOR MEASURING RNA STRUCTURE (PCM-7923471)*; 12 MONTHS $25,000

CONNECTICUT

SOCIETY OF GENERAL PHYSIOLOGISTS

SCHULTZ, STANLEY G; *A SYMPOSIUM ON ION TRANSPORT BY EPITHELIAL TISSUES; MARINE BIOLOGICAL LAB; SEPT 4-7, 1980 (PCM-8002348*)*; 6 MONTHS $5,600

UNIVERSITY OF CONNECTICUT

YPHANTIS, DAVID A; *PROTEINS AND THEIR INTERACTIONS (PCM-7821847 A04)*; 12 MONTHS $70,000

RICH, PETER H; *AEROBIC AND ANAEROBIC METABOLISM IN A SOFT-WATER LAKE ECOSYSTEM (DEB-7724633 A01)*; $3,333

MARCUS, PHILIP I; *THE INTERFERON SYSTEM, AND CELL KILLING BY VIRUSES (PCM-7724875 A02)*; 12 MONTHS $30,000

SCHULTZ, R JACK; *HETEROSIS AND NICHE BREADTH AMONG POLYMORPHIC, HYBRID FISHES (DEB-7725341 A02)*; 12 MONTHS $34,240

LAUFER, HANS; *HEMOGLOBIN SYNTHESIS IN CHIRONOMUS (PCM-7725479 A01)*; 24 MONTHS $78,375

CLARK, NANCY B; *PARATHYROID STRUCTURE AND FUNCTION (PCM-7806669 A02)*; 12 MONTHS $47,558

HALL, BARRY G; *LACTOSE TRANSPORT AND METABOLISM IN EVOLVED KLEBSIELLA (PCM-7807153 A01)*; 14 MONTHS $28,300

HIGHTOWER, LAWRENCE E; *NEWCASTLE DISEASE VIRAL INFECTION (PCM-7808088 A02)*; 12 MONTHS $33,802

CREPET, WILLIAM L; *INVESTIGATIONS OF ANGIOSPERM REMAINS FROM THE MIDDLE EOCENE OF THE SOUTHEASTERN UNITED STATES (DEB-7811120 A02)*; 12 MONTHS $21,662

SCHUSTER, TODD M, AND PHILO, JOHN S; *HEMEPROTEINS: STATIC AND RAPID KINETIC MAGNETIC STUDIES (PCM-7903964 A01)*; 12 MONTHS $65,000

KRIDER, HALLIE M; *THE MECHANISMS REGULATING RDNA FUNCTION IN DROSOPHILA (PCM-7908853)*; 12 MONTHS $16,484

RENFRO, J LARRY; *RENAL DIVALENT ION TRANSPORT PROCESSES IN A MARINE TELEOST (PCM-8003952)*; 12 MONTHS $30,884

SILANDER, JOHN A; *COMPETITION AND COEXISTENCE ALONG AN ENVIRONMENTAL GRADIENT (DEB-8005565)*; 12 MONTHS $19,956

UNIVERSITY OF CONNECTICUT HEALTH CENTER

BRONNER, FELIX; *CALCIUM TRANSPORT BY RAT INTESTINAL MEMBRANE VESICLES (PCM-7823366 A01)*; 12 MONTHS $60,175

KOSHER, ROBERT A; *STUDIES ON LIMB DEVELOPMENT (PCM-7925907)*; 12 MONTHS $49,193

ROBINSON, KENNETH R; *IONIC AND ELECTRICAL CONTROL OF CELLULAR POLARITY (PCM-7926715)*; 12 MONTHS $42,000

WESLEYAN UNIVERSITY

INFANTE, ANTHONY A; *CONTROL OF PROTEIN SYNTHESIS DURING EMBRYOGENESIS (PCM-7808873 A02)*; 12 MONTHS $64,663

ALLEWELL, NORMA M; *CALORIMETRIC ANALYSIS OF LIGAND BINDING AND SUBUNIT INTERACTIONS IN BOVINE NEUROPHYSIN (PCM-7920679)*; 12 MONTHS $20,000

YALE UNIVERSITY-SCHOOL OF MEDICINE

SLAYMAN, CAROLYN W; *PLASMA-MEMBRANE ATPASE FROM NEUROSPORA (PCM-7725199 A02)*; 12 MONTHS $56,996

KIRK, R G; *MEMBRANE TRANSPORT IN BLOOD CELLS AND TISSUE (PCM-7725208 A02)*; 12 MONTHS $30,000

LOW, K BROOKS; *GENE FUNCTIONS INVOLVED IN GENETIC RECOMBINATION IN E. COLI (PCM-7808590 A02)*; 12 MONTHS $20,600

WEINER, ALAN M; *GENE ORGANIZATION AND TRANSCRIPTION OF SMALL RNA SPECIES (PCM-7821799 A01)*; 12 MONTHS $50,000

ADELBERG, EDWARD A; *GENETICS OF MEMBRANE TRANSPORT IN MAMMALIAN CELLS (PCM-7826751 A01)*; 12 MONTHS $80,000

STEITZ, JOAN A; *RNA-PROTEIN INTERACTIONS IN THE CELL NUCLEUS (PCM-7909291 A01)*; 12 MONTHS $40,000

COLEMAN, JOSEPH E, AND ARMITAGE, IAN M; *ELECTRONIC AND MAGNETIC PROPERTIES OF MACROMOLECULES (PCM-7912269)*; 12 MONTHS $46,000

SLAYMAN, CLIFFORD L; *DIRECT ELECTRICAL STUDIES ON ENERGY-COUPLING AND TRANSPORT IN GIANT ESCHERICHIA COLI (PCM-7913417)*; 12 MONTHS $78,686

BACHMANN, BARBARA J; *MAINTENANCE OF ESCHERICHIA COLI K-12 STOCK CULTURE COLLECTION (DEB-7920532)*; 12 MONTHS $89,113

YALE UNIVERSITY

GALSTON, ARTHUR W, AND SATTER, RUTH L; *MECHANISMS OF LIGHT-CLOCK INTERACTION IN PLANT CELLS (PCM-7722394 A02)*; 12 MONTHS $59,419

ORNSTON, L N; *B-KETOADIPATE ENOL-LACTONE HYDROLASES: PROBES INTO METABOLIC EVOLUTION (PCM-7724884 A02)*; $45,000

ORNSTON, L N; *BETA-KETOADIPATE ENOL-LACTONE HYDROLASES: PROBES INTO METABOLIC EVOLUTION (PCM-7724884 A03)*; 12 MONTHS $55,000

STEITZ, THOMAS A; *STRUCTURAL BASIS OF MOLECULAR MECHANISM OF CELLULAR CONTROL (PCM-7725111 A02)*; 12 MONTHS $40,000

KONIGSBERG, WILLIAM H, AND RICHARDS, FRANK F; *STRUCTURE AND BINDING SPECIFICITY OF HUMAN AND MOUSE MYELOMA PROTEINS (PCM-7806666 A02)*; 12 MONTHS $32,000

ENGELMAN, DONALD M, AND MOORE, PETER B; *NEUTRON DIFFRACTION STUDIES OF QUATERNARY STRUCTURE (PCM-7810361 A02)*; 12 MONTHS $80,000

BORMANN, F H; *COLLABORATIVE RESEARCH ON THE HYDROLOGIC-NUTRIENT CYCLE INTERACTION IN SMALL UNDISTURBED AND MANIPULATED ECOSYSTEMS (DEB-7810718 A02)*; 12 MONTHS $66,347

HARRISON, RICHARD G; *LIFE CYCLE EVOLUTION AND SPECIATION IN NORTH AMERICAN GRYLLUS (DEB-7811188 A02)*; 12 MONTHS $45,024

SOLL, DIETER G; *STRUCTURE OF EUKARYOTIC TRNA GENES AND TRNA BIOSYNTHESIS IN EUKARYOTES (PCM-7818541 A01)*; 12 MONTHS $60,000

CROTHERS, DONALD M; *PHYSICAL STUDIES OF NUCLEIC ACID STRUCTURE AND INTERACTION SPECIFICITY (PCM-7820037 A01)*; 12 MONTHS $40,000

PRESTEGARD, JAMES H; *MOLECULAR INTERACTIONS IN FATTY ACID BIOSYNTHESIS (PCM-7821101 A01)*; 12 MONTHS $50,000

ALTMAN, SIDNEY; *RIBONUCLEASE P AND OTHER RIBONUCLEOPROTEINS (PCM-7904054 A01)*; 12 MONTHS $50,000

SUSSEX, IAN M; *MECHANISM OF ACTION OF ABSCISIC ACID IN HORMONE RESPONSE MUTANTS (PCM-7904390)*; 12 MONTHS $22,351

TIFFNEY, BRUCE H; *SYSTEMATICS OF FOSSIL FRUITS AND SEEDS FROM BRANDON LIGNITE DEPOSIT (DEB-7905082 A01)*; 12 MONTHS $40,628

ORNSTON, L N; *LARGE SCALE MICROBIOLOGICAL GROWTH FACILITY (PCM-7911619)*; 12 MONTHS $95,000

RUDDLE, FRANK H; *EQUIPMENT GRANT: THE ANALYSIS AND MANIPULATION OF COMPLEX EUKARYOTIC GENOMES (PCM-7912028 A01)*; 12 MONTHS $31,335

MCKAYE, KENNETH R; *COMMUNITY AND BEHAVIORAL ECOLOGY OF CICHILD FISHES (DEB-7912338 A01*)*; $15,460

FRANCKE, BERTOLD R; *ACQUISITION OF A ULTRACENTRIFUGE FOR STUDIES OF GENE FUNCTIONS OF HERPES SIMPLEX VIRUS (PCM-7914194)*; 12 MONTHS $17,300

THOMSON, KEITH S; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-7918482)*; 12 MONTHS $4,450

OSTROM, JOHN H; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-7919681)*; 12 MONTHS $5,820

THOMSON, KEITH S; *SYSTEMATICS OF TRIASSIC AND EARLY JURASSIC SEMIONOTIDAE OF EASTERN NORTH AMERICA (DEB-7921746*)*; 12 MONTHS $36,776

POWELL, JEFFREY R; *POPULATION GENETICS OF DROSOPHILA AMYLASE (DEB-7921748)*; 24 MONTHS $60,000

CONE, ROBERT E; *MOLECULAR BASIS OF T LYMPHOCYTE RECOGNITION (PCM-7921779)*; 12 MONTHS $45,035

HANDEL, STEVEN N; *MEASUREMENT OF POLLEN FLOW IN NATURAL AND EXPERIMENTAL PLANT POPULATIONS (DEB-7927022)*; 22 MONTHS $49,788

COLSON, STEVEN D, AND CROTHERS, DONALD M; *EXCITED STATE PROPERTIES OF NUCLEOSIDE ANALOGS (PCM-8006989)*; 12 MONTHS $36,000

CROTHERS, DONALD M; *PURCHASE OF LASER SPECTROSCOPY EQUIPMENT (CHE-8008849*)*; 12 MONTHS $30,000

RODMAN, JAMES E, AND LOUDA, SVATA M; *INSECT HERBIVORY IN THE SPATIAL DYNAMICS OF NATIVE PLANT POPULATIONS (DEB-8011106)*; 24 MONTHS $80,006

DELAWARE

UNIVERSITY OF DELAWARE

STETSON, MILTON H; *PHOTO-NEURO-ENDOCRINE INTERACTIONS IN THE REGULATION OF REPRODUCTION (PCM-7806664 A02)*; 12 MONTHS $56,700

WHITE, HAROLD B; *BIOTIN-BINDING PROTEIN: STRUCTURE AND FUNCTION (PCM-7920683)*; 12 MONTHS $54,000

TASCA, RICHARD J; *NUTRIENT TRANSPORT AND CELL SURFACE ANTIGENS IN EARLY MOUSE EMBRYOS (PCM-8010940)*; 24 MONTHS $80,000

DISTRICT OF COLUMBIA

CARNEGIE INSTITUTION OF WASHINGTON

BJORKMAN, OLLE E, BERRY, JOSEPH A, AND MOONEY, HAROLD; *COLLABORATIVE STUDIES ON PHOTOSYNTHETIC ADAPTATION OF HIGHER PLANTS (DEB-7810724 A02)*; 12 MONTHS $12,000

FEDOROFF, NINA V; *MOLECULAR BIOLOGY OF THE SUPPRESSOR-MUTATOR CONTROLLING ELEMENT SYSTEM IN MAIZE (PCM-7911243 A01)*; 12 MONTHS $65,000

GEORGE WASHINGTON UNIVERSITY-MEDICAL CENTER

VAHOUNY, GEORGE V; *ROLE OF CHOLESTEROL ESTERS IN HORMONE PRODUCTION BY STEROIDOGENIC TISSUES (PCM-7903268 A01)*; 12 MONTHS $23,943

KUMAR, AJIT; *REGULATION OF RIBOSOME METABOLISM IN MAMMALIAN CELLS (PCM-7919501 A01)*; 12 MONTHS $50,000

GEORGETOWN UNIVERSITY

LANDMAN, OTTO E; *DNA PROCESSING AND DNA-MEMBRANE ASSOCIATION DURING TRANSFORMATION (PCM-7905318 A01)*; 12 MONTHS $51,253

MAC GREGOR, CAROLYN H; *ASSEMBLY AND REGULATION OF AN INTEGRAL MEMBRANE PROTEIN (PCM-7920680)*; 12 MONTHS $41,000

NISHIOKA, DAVID J; *THE EFFECTS OF INTRACELLULAR PH ON THE SYNTHESIS OF DNA IN FERTILIZED SEA URCHIN EGGS (PCM-7923487)*; 12 MONTHS $27,247

GEORGETOWN UNIVERSITY-SCHOOL OF MEDICINE

POPPER, ARTHUR N, AND ANDREWS, PETER M; *MULTI-USER EQUIPMENT FOR STUDY OF THE ULTRASTRUCTURE OF SENSORY AND OTHER SYSTEMS (BNS-7917920*)*; 12 MONTHS $45,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

KASPER, RAPHAEL; *PARTIAL SUPPORT OF THE INTERNATIONAL ENVIRONMENTAL PROGRAMS COMMITTEE (INT-7826469 A02*)*; 12 MONTHS $12,000

MORGAN, COUNCILMA; *PARTIAL SUPPORT OF THE INSTITUTE OF LABORATORY ANIMAL RESOURCES (PCM-7921163)*; 12 MONTHS $26,000

FLORIDA

FAIRCHILD TROPICAL GARDEN

FISHER, JACK B; *STRUCTURAL STUDIES OF TROPICAL TREES (DEB-7914635)*; 12 MONTHS $23,519

FLORIDA INTERNATIONAL UNIVERSITY

GOLDBERG, WALTER; *PHYSIOLOGICAL ECOLOGY OF A PATHOGENIC GREEN ALGA (PCM-7920522)*; 24 MONTHS $47,084

FLORIDA STATE UNIVERSITY

TSCHINKEL, WALTER R; *THE INHIBITION OF PUPATION BY CROWDING IN A TENEBRIONID BEETLE (DEB-7715906 A02)*; 12 MONTHS $37,420

MENZEL, MARGARET Y; *GENOME STRUCTURE AND EVOLUTION IN COTTON AND ITS RELATIVES (DEB-7724476 A02)*; 12 MONTHS $22,001

MENZEL, MARGARET Y; *GENOME STRUCTURE AND EVOLUTION IN COTTON AND ITS RELATIVES (DEB-7724476 A03)*; $1,000

FRIEDMANN, E I; *TAXONOMY OF UDOTEACEAE (DEB-7823398 A01)*; 12 MONTHS $35,764

JAMES, FRANCES C; *GEOGRAPHICAL VARIATION IN AVIAN MORPHOLOGY (DEB-7922995)*; 24 MONTHS $67,305

GREENBERG, MICHAEL J; *OSMOTIC AND IONIC REGULATION IN THE FRESHWATER FOULING AGENT, LIMNOPERNA FORTUNEI (PCM-8012006)*; 12 MONTHS $10,000

NEWFOUND HARBOR MARINE INSTITUTE

THOMAS, JAMES D; *TAXONOMY OF THE SHALLOW WATER AMPHIPODA OF THE FLORIDEANCARIBBEAN REGION (DEB-7715883 A01)*; 24 MONTHS $20,270

PAPANICOLAOU CANCER RESEARCH INSTITUTE

KOHEN, ELLI; *MICROSPECTROFLUOROMETRIC STUDY OF ENZYME-SUBSTRATE REACTIONS (PCM-7708549 A02)*; 12 MONTHS $27,300

MELOCHE, H; *STEREOCHEMICAL ASPECTS OF PRYUVATE-SPECIFIC ALDOLASES (PCM-7911565 A01)*; 12 MONTHS $35,000

TALL TIMBERS RESEARCH INC

STRONG, DONALD R; *EXPERIMENTAL LOCAL EXTINCTIONS AND INVASIONS OF ARTHROPOD COMMUNITIES (DEB-7921828)*; 24 MONTHS $55,961

PLATT, WILLIAM J, AND MEANS, D BRUCE; *THE DYNAMICS OF FIRE-ADAPTED COMMUNITIES - LTREB (DEB-8012090)*; 12 MONTHS $23,838

UNIVERSITY OF FLORIDA-COLLEGE OF MEDICINE

FLANEGAN, JAMES B; *MOLECULAR BIOLOGY OF POLIOVIRUS RNA REPLICATION (PCM-7813225 A01)*; 12 MONTHS $35,000

HAUSWIRTH, WILLIAM W, LAIPIS, PHILIP J, AND OBRIEN, THOMAS W; *GENETIC VARIATION IN MAMMALIAN MITOCHONDRIAL DNA (PCM-7823221 A01)*; 12 MONTHS $45,000

DUCKWORTH, DONNA H; *INTERACTIONS AMONG MICROBIAL GENETIC ELEMENTS INVOLVING THE BACTERIAL CELL SURFACE (PCM-7904741 A01)*; 12 MONTHS $40,000

COHEN, ROBERT J; *CELL WALL AND LYTIC ENZYMES IN THE RESPONSE SYSTEM OF PHYCOMYCES (PCM-7921869)*; 24 MONTHS $59,999

NOONAN, KENNETH D; *BIOGENESIS OF THE NUCLEAR ENVELOPE (PCM-8001197)*; 24 MONTHS $80,424

FELDHERR, CARL M; *ENDOGENOUS PROTEIN EXCHANGES ACROSS THE NUCLEAR ENVELOPE (PCM-8003697)*; 21 MONTHS $40,000

SELMAN, KELLY E; *OOCYTE GROWTH IN TELEOSTS (PCM-8003809)*; 12 MONTHS $45,000

STEIN, GARY S, AND STEIN, JANET L; *CONTROL OF HISTONE GENE EXPRESSION IN MAMMALIAN CELLS (PCM-8018075)*; 12 MONTHS $49,939

UNIVERSITY OF FLORIDA

WEBB, S DAVID, AND MAC FADDEN, BRUCE J; *PHYLOGENETIC AND ZOOGEOGRAPHIC STUDIES OF FLORIDA LATE TERTIARY VERTEBRATES (DEB-7810672 A01)*; 3 MONTHS $7,104

LANCIANI, CARMINE A; *PARASITE-INDUCED EFFECTS ON HOST POPULATION PARAMETERS (DEB-7921642)*; 24 MONTHS $50,064

LANCIANI, CARMINE A; *PARASITE-INDUCED EFFECTS ON HOST POPULATION PARAMETERS (DEB-7921642 A01)*; $7,968

LLOYD, JAMES E; *BIOSYSTEMATICS OF LAMPYRIDAE (DEB-7921744)*; 24 MONTHS $61,783

BREZONIK, PATRICK L; *NITROGEN FIXATION BY ROOT ASSOCIATIONS OF TREES IN CYPRESS WETLANDS (DEB-7923434*)*; 24 MONTHS $76,039

CHUN, PAUL W; *SCANNING MOLECULAR SIEVE CHROMATOGRAPHY OF INTERACTING PROTEIN SYSTEMS (PCM-7925685)*; 24 MONTHS $100,000

DEEVEY, EDWARD S; *LATE PLEISTOCENE SEDIMENTOLOGY AND PALEOECOLOGY OF THE PETEN LAKE DISTRICT, GUATEMALA (EAR-7926330*)*; 12 MONTHS $20,000

BROOKBANK, JOHN W; *22ND SOUTHEASTERN DEVELOPMENTAL BIOLOGY CONFERENCE; MARCH 20-23, 1980, PALM COAST, FLORIDA (PCM-8005077)*; 12 MONTHS $2,200

BROCKMANN, H J; *THE EXAMINATION OF EVOLUTIONARILY STABLE STRATEGIES (DEB-8009331)*; 12 MONTHS $38,000

EWEL, JOHN J; *NATURAL SUCCESSION AS A MODEL FOR THE DESIGN OF NEW TROPICAL AGROECOSYSTEMS (DEB-8011136)*; 12 MONTHS $135,000

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

VOSS, GILBERT L; *THE SYSTEMATICS OF THE CEPHALOPODS (DEB-7603456 A04)*; 12 MONTHS $30,507

FELL, JACK W; *SYSTEMATICS AND LIFE HISTORIES OF BASIDIOMYCETOUS YEASTS (DEB-7912190)*; 12 MONTHS $53,484

COOKSEY, KEITH E, AND RUBIN, ROBERT W; *THE MOTILE SYSTEM OF A DIATOM (PCM-7927251)*; 24 MONTHS $80,000

VOSS, GILBERT L; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8012544)*; 18 MONTHS $2,605

UNIVERSITY OF MIAMI-SCHOOL OF MEDICINE

CHAMBERS, EDWARD L; *IONIC MECHANISMS IN THE INITIATION OF DEVELOPMENT (PCM-7806178 A02)*; 12 MONTHS $75,000

UNIVERSITY OF MIAMI

MUENCH, KARL H; *AMINO ACID SEQUENCE, REQUIRED THIOL FUNCTION, AND CRYSTALLIZATION OF TRYPTOPHANYL-TRNA SYNTHETASE FROM A SUPERPRODUCING STRAIN OF E. COLI (PCM-7824133 A01)*; 12 MONTHS $30,000

CLEGG, JAMES S; *INTERRELATIONSHIPS BETWEEN WATER AND CELLULAR METABOLISM (PCM-7925809)*; 12 MONTHS $29,573

EVANS, DAVID H; *INVESTIGATION OF IONIC TRANSPORT MECHANISMS IN FISH GILLS UTILIZING AN ISOLATED, PERFUSED-HEAD PREPARATION (PCM-8003866)*; 12 MONTHS $30,000

WADDINGTON, KEITH D; *INFORMATION USED IN FORAGING (BNS-8004537*)*; 24 MONTHS $22,500

UNIVERSITY OF SOUTH FLORIDA

MICHAELS, ALLAN; *ISOLATION AND CHARACTERIZATION OF MEMBRANE-BOUND CHLOROPLAST MESSENGER RIBONUCLEIC ACID FROM CHLAMYDOMONAS (PCM-7714695 A02)*; 2 MONTHS $6,000

ROMEO, JOHN T; *CHEMOSYSTEMATICS AND ECOLOGY OF CALLIANDRA SPP. (MIMOSOIDEAE) (DEB-8005567*)*; 24 MONTHS $66,803

GEORGIA

EMORY UNIVERSITY

NUTTALL, ROBERT P; *MOTILITY, BEHAVIOR, AND CONTACT INTERACTIONS IN CULTURED EMBRYONIC NEURONS (PCM-7926681)*; 12 MONTHS $45,000

EMORY UNIVERSITY-SCHOOL OF MEDICINE

SHAPIRA, RAYMOND, AND WU, GUANG JER; *SPLICED MRNA AND RODENT MYELIN BASIC PROTEINS (PCM-7916169)*; 12 MONTHS $53,000

GEORGIA INSTITUTE OF TECHNOLOGY

MAY, SHELDON W; *ENZYMATIC EPOXIDATION AND OXYGEN ACTIVATION (PCM-7918334)*; 24 MONTHS $70,000

GEORGIA STATE UNIVERSITY

MEYER, SALLY A; *MOLECULAR APPROACHES TO YEAST SYSTEMATICS (DEB-7823630 A01)*; 12 MONTHS $28,635

ABDELAL, AHMED T; *REGULATION OF CARBAMYLPHOSPHATE SYNTHESIS IN MICROORGANISMS (PCM-8016800)*; 12 MONTHS $50,000

MEDICAL COLLEGE OF GEORGIA

HOWARD, EUGENE F; *SMALL MOLECULAR WEIGHT NUCLEAR RNA (PCM-7918339)*; 12 MONTHS $30,000

UNIVERSITY OF GEORGIA

MAKULA, RONALD A; *STRUCTURE AND BIOGENESIS OF MEMBRANES OF METHANOGENIC BACTERIA* (PCM-7822911; 24 MONTHS $56,510

BLACK, CLANTON C; *PURCHASE OF CONTROLLED ENVIRONMENT PLANT GROWTH CHAMBERS* (PCM-7826791; 12 MONTHS $45,935

GIANNASI, DAVID E; *COLLABORATIVE RESEARCH ON PALEOBIOCHEMISTRY OF FOSSIL ANGIOSPERMS* (DEB-7904551 A01; $5,990

CORMIER, MILTON J; *ROLE OF CALCIUM DEPENDENT MODULATOR PROTEIN IN PLANTS* (PCM-7905043; 12 MONTHS $56,078

HODSON, ROBERT E; *LIQUID SCINTILLATION COUNTING SYSTEM AND SAMPLE OXIDIZER* (PCM-7908868*; 12 MONTHS $26,384

PAYTON, JOHN S; *THE LIPID BIOCHEMISTRY OF COELENTERATE SYMBIOSIS* (PCM-7909492*; 24 MONTHS $17,650

JONES, SAMUEL B; *SYSTEMATICS OF VERNONIEAE (COMPOSITAE)* (DEB-7909831 A01; $6,391

CASE, MARY E, AND GILES, NORMAN H; *THE DEVELOPMENT OF A TRANSFORMATION SYSTEM IN NEUROSPORA* (PCM-7910911; 24 MONTHS $50,000

WAMPLER, JOHN E, AND CORMIER, MILTON J; *PURCHASE OF AN ON-LINE IMAGE INTENSIFICATION SYSTEM FOR WEAK-LIGHT MICROSCOPY* (PCM-7912316; 24 MONTHS $60,000

ANDERSON, WYATT W; *ANALYSIS OF SELECTION ON DROSOPHILA PSEUDOOBSCURA KARYOTYPES* (DEB-7918493; 12 MONTHS $51,704

PRATT, LEE H; *MECHANISM OF PHYTOCHROME ACTION* (PCM-7921568; 12 MONTHS $30,000

CRIM, JOE W; *LOWER VERTEBRATE GONADOTROPIN-RELEASING ACTIVITY* (PCM-7921873; 24 MONTHS $64,999

JORDAN, CARL F; *CHANGES IN THE NUTRIENT CYCLE OF A TROPICAL RAIN FOREST ECOSYSTEM DUE TO CUTTING AND BURNING* (DEB-7922489 A01; $24,187

PATTEN, BERNARD; *INTEGRATED STUDIES OF THE OKEFENOKEE SWAMP ECOSYSTEM* (DEB-7922633; 12 MONTHS $448,566

CLEGG, MICHAEL T, AND RAWSON, JAMES R Y; *STRUCTURE AND GENETIC VARIATION OF DNA SEQUENCES IN A HIGHER PLANT* (DEB-7922998; 24 MONTHS $110,000

PORTER, JAMES W; *ACQUISITION OF COMPUTER EQUIPMENT FOR ECOLOGICAL ANALYSES* (DEB-7923519; 12 MONTHS $34,100

ATYEO, WARREN T; *THE SUPRASPECIFIC TAXA OF THE ANALGOIDEA (S.L.) (ACARINA: SARCOPTIFORMES)* (DEB-7924299; 12 MONTHS $25,172

BLUM, MURRAY S; *PHENOLICS IN OAK GALL TISSUE AND THEIR ADAPTIVE SIGNIFICANCE TO A CYNIPID GALL WASP* (DEB-7925112; 12 MONTHS $36,850

BLACK, CLANTON C; *CARBON DIOXIDE ASSIMILATION CAPABILITIES OF HIGHER PLANTS* (PCM-8005055; 12 MONTHS $55,000

PORTER, KAREN G; *STRUCTURE OF MACRO- AND MICRO-ZOOPLANKTON COMMUNITIES* (DEB-8005582; 24 MONTHS $100,000

PALEVITZ, BARRY A; *MICROTUBULES AND MICROFILAMENTS: THEIR DISTRIBUTION ORGANIZATION AND FUNCTION IN PLANT CELLS* (PCM-8006166; 12 MONTHS $60,186

RAWSON, JAMES R Y; *CHLOROPLAST BIOGENESIS: THE SEQUENCE OF TRANSCRIPTIONAL AND TRANSLATIONAL EVENTS DURING AN INTRACELLULAR DEVELOPMENTAL PROCESS* (PCM-8007507; 12 MONTHS $69,173

ODUM, EUGENE P, AND CROSSLEY, D A; *ANALYSIS OF AGRICULTURAL SYSTEMS: NUTRIENT CYCLING IN CONVENTIONAL TILLAGE, NO-TILLAGE AND OLD-FIELD SYSTEMS* (DEB-8007543; 18 MONTHS $88,488

ODUM, EUGENE P, AND CROSSLEY, D A; *ANALYSIS OF AGRICULTURAL SYSTEMS: NUTRIENT CYCLING IN CONVENTIONAL TILLAGE, NO-TILLAGE AND OLD FIELD SYSTEMS* (DEB-8007543 A01; $6,065

CORMIER, MILTON J; *CA2+-DEPENDENT REGULATION OF COELENTERATE BIOLUMINESCENCE* (PCM-8007672; 12 MONTHS $55,000

FITZGERALD, JOHN W; *IMPACT OF THE PLANT SULFOLIPID ON THE SULFUR CYCLE IN TERRESTRIAL ECOSYSTEMS* (DEB-8009066; 24 MONTHS $75,000

CROSSLEY, D A; *COMPARATIVE STUDIES OF FORESTED WATERSHEDS AT COWEETA HYDROLOGIC LABORATORY, NORTH CAROLINA* (DEB-8012093*; 12 MONTHS $191,631

JORDAN, CARL F, AND UHL, CHRISTOPH; *EFFECT OF CUTTING AND BURNING ON NUTRIENT DYNAMICS OF A TROPICAL RAIN FOREST* (DEB-8012209; 12 MONTHS $319,734

HAINES, BRUCE L; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY* (DEB-8012402; 24 MONTHS $5,000

WAMPLER, JOHN E; *STUDIES AND APPLICATIONS OF EARTHWORM BIOLUMINESCENCE* (PCM-8012433; 12 MONTHS $35,000

DURE, LEON S; *DEVELOPMENTAL BIOCHEMISTRY OF PLANT SEED EMBRYOGENESIS AND GERMINATION* (PCM-8012786; 12 MONTHS $63,116

JONES, SAMUEL B; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY* (DEB-8016575; 24 MONTHS $6,352

LEE, JOHN W; *ENERGY CONVERSION MECHANISMS IN BIOLUMINESCENCE* (PCM-8016692; 12 MONTHS $30,000

MEAGHER, RICHARD B; *A MODEL GENETIC ENGINEERING SYSTEM IN PLANTS* (PCM-8016979; 12 MONTHS $55,000

CROSSLEY, D A; *EFFECTS OF PERTURBATION ON NUTRIENT CIRCULATION IN FORESTED WATERSHED ECOSYSTEMS* (DEB-8017364; 12 MONTHS $212,672

HAWAII

BERNICE P BISHOP MUSEUM

RANDALL, JOHN E; *CURATING THE FISH COLLECTION OF THE BERNICE P. BISHOP MUSEUM* (DEB-7802795 A02; 12 MONTHS $47,576

HOWARTH, FRANCIS G; *ECOLOGY AND EVOLUTION OF CAVE ANIMALS* (DEB-7904760 A01; 12 MONTHS $26,271

RADOVSKY, FRANK J; *CURATORIAL AND FACILITIES SUPPORT OF THE ENTOMOLOGICAL COLLECTIONS* (DEB-8008987; 12 MONTHS $69,815

UNIVERSITY OF HAWAII-MANOA

AHEARN, GREGORY A; *GASTROINTESTINAL TRANSPORT PHYSIOLOGY OF CRUSTACEANS* (PCM-7804105 A02; 12 MONTHS $35,892

MC CONNELL, BRUCE; *MODEL FOR DNA MODIFICATION* (PCM-7720154 A02; 12 MONTHS $40,000

BANNER, ALBERT H; *ALPHEIDS OF THE INDO-PACIFIC* (DEB-7723378 A03; 12 MONTHS $13,070

ALLEN, RICHARD D; *MEMBRANE DYNAMICS IN INTRACELLULAR DIGESTION* (PCM-7815893 A01; 12 MONTHS $52,500

CARR, GERALD D; *ADAPTIVE RADIATION IN THE HAWAIIAN SILVERSWORD ALLIANCE (COMPOSITAE-MADIEAE)* (DEB-7902819 A02; 24 MONTHS $79,168

MUELLER-DOMBOIS, DIETER; *SPATIAL VARIATION AND SUCCESSION IN TROPICAL ISLAND RAIN FORESTS* (DEB-7910993 A01; 12 MONTHS $154,503

STUART, W D; *LOCALIZATION OF HUMAN GENES USING THE SCANNING ELECTRON MICROSCOPE* (PCM-7916350; 24 MONTHS $75,162

HARDY, D E; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY* (DEB-7921435; 24 MONTHS $2,186

AHEARN, GREGORY A; *PURCHASE OF AN ULTRACENTRIFUGE* (PCM-7923509; 12 MONTHS $20,176

CARSON, HAMPTON L; *GENETIC PROCESSES LEADING TO THE ORIGIN OF SPECIES* (DEB-7926692*; 12 MONTHS $71,000

ARNOLD, JOHN M; *MECHANISM OF TISSUE MASS FUSION IN EMBRYOGENESIS* (PCM-8002615; 24 MONTHS $47,487

ROSEN, LEON; *INSECTS, RHABDOVIRUSES, AND HEREDITARY SENSITIVITY TO CO2* (PCM-8010675; 12 MONTHS $50,040

ILLINOIS

FIELD MUSEUM OF NATURAL HISTORY

SOLEM, G A; *PHYLOGENY AND BIOGEOGRAPHY OF HELICOID LAND SNAILS* (DEB-7821444 A01; 12 MONTHS $27,575

MARSHALL, LARRY G; *PHYLOGENETIC RELATIONSHIPS OF THE MARSUPIALIA* (DEB-7901976 A01; 12 MONTHS $25,700

TIM, ROBERT M; *CARE AND USE OF THE SYSTEMATIC COLLECTION OF MAMMALS* (DEB-7920660; 12 MONTHS $43,267

BURGER, WILLIAM C; *CURATORIAL SUPPORT FOR THE JOHN G. SEARLE HERBARIUM* (DEB-7925717; 12 MONTHS $32,000

BURGER, WILLIAM C; *EQUIPMENT FOR THE FIELD MUSEUM OF NATURAL HISTORY* (DEB-8000917; 12 MONTHS $6,874

NITECKI, MATTHEW H; *FIELD MUSEUM SPRING SYSTEMATICS SYMPOSIUM, CHICAGO, MAY 9-10, 1980* (DEB-8002019; 12 MONTHS $4,145

KETHLEY, JOHN B; *SUPPORT FOR SYSTEMATIC COLLECTIONS OF INSECTS AND OTHER ARTHROPODS* (DEB-8015675; 12 MONTHS $50,000

ILLINOIS INSTITUTE OF TECHNOLOGY

BUSH, C A; *OPTICAL ACTIVITY AND THE CONFORMATION OF COMPLEX OLIGOSACCHARIDES* (PCM-7918887; 12 MONTHS $53,000

ILLINOIS STATE UNIVERSITY

COLLIER, GLEN E; *MOLECULAR STUDIES OF THREE DROSOPHILA PROTEINS* (DEB-7920354; 36 MONTHS $78,903

NORTHERN ILLINOIS UNIVERSITY

VARY, PATRICIA S; *TRANSDUCTION IN BACILLUS MEGATERIUM* (PCM-7922162; 24 MONTHS $60,000

GREENFIELD, DAVID W; *SYSTEMATICS OF THE GAMBUSIA PUNCTICULATA-YUCATANA SPECIES COMPLEX* (DEB-7923449; 24 MONTHS $60,000

NORTHWESTERN UNIVERSITY-CHICAGO CAMPUS-MEDICAL SCHOOL

NADLER, CHARLES F; *COLLABORATIVE RESEARCH ON SYSTEMATICS OF HOLARCTIC MAMMALS* (DEB-8007246; 12 MONTHS $38,700

NORTHWESTERN UNIVERSITY

LOACH, PAUL A; *CHEMISTRY OF THE PHOTOTRAP IN BACTERIAL PHOTOSYNTHESIS* (PCM-7816989 A01; 12 MONTHS $40,000

WELKIE, NEIL E; *EXPERIMENTAL EVOLUTION OF THERMOSTABLE ENZYMES* (PCM-7911617; 24 MONTHS $55,000

HOFFMAN, BRIAN M; *METALLOPORPHYRINS AND METAL-SUBSTITUTED OXYGEN-BINDING HEMOPROTEINS* (PCM-7922173; 12 MONTHS $62,000

RUNDELL, MARY K; *ANALYSIS OF SV40 NON-T TUMOR ANTIGENS* (PCM-8002571; 12 MONTHS $50,000

BEATTIE, ANDREW J, AND CULVER, DAVID C; *THE EVOLUTIONARY ECOLOGY OF MYRMECHOCHOROUS DIASPORE MUTUALISMS* (DEB-8004878; 24 MONTHS $70,583

RUSH-PRESBYTERIAN-ST LUKE'S MEDICAL CENTER

MORLEY, COLIN G, AND BEZKOROVAINY, ANATOLY; *THE UPTAKE OF IRON BY LIVER PARENCHYMAL CELLS* (PCM-8001195; 12 MONTHS $50,000

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

CORRUCCINI, ROBERT S; *THE DENTINO-ENAMEL JUNCTION AND PRIMATE TAXONOMY* (DEB-7922166; 18 MONTHS $17,500

UNIVERSITY OF CHICAGO

WESTLEY, JOHN; *ENZYMIC MECHANISMS OF SULFUR-TRANSFER CATALYSIS (PCM-7726961 A02)*; 12 MONTHS $40,000

ARNOLD, STEVAN J; *GENETICS, ECOLOGY AND EVOLUTION OF THAMNOPHIS (DEB-7812580 A02)*; 12 MONTHS $41,000

FRENKEL, NILA; *FUNCTIONS EXPRESSED BY DEFECTIVE HERPES SIMPLEX VIRUS (PCM-7816298 A02)*; 12 MONTHS $50,000

FEDER, MARTIN E, AND WASSERSUG, RICHARD J; *ADAPTATIONS FOR SWIMMING AND FEEDING ACTIVITY OF LARVAL ANURANS (DEB-7823896 A01)*; 12 MONTHS $43,415

SHAPIRO, JAMES A; *GENETICS AND REGULATION OF ALKANE METABOLISM IN PSEUDOMONAS (PCM-7903540 A01)*; 12 MONTHS $75,000

ALBERTS, RANDALL S; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-7923400)*; 24 MONTHS $5,630

LOMBARD, R E; *THE AUDITORY SYSTEM OF ANURA: STRUCTURE, ORIGIN, AND FUNCTION (DEB-8002619)*; 12 MONTHS $35,300

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

ANDERSON, LOUISE E; *METABOLIC REGULATION IN PHOTOSYNTHETIC ORGANISMS (PCM-7708355 A03)*; 12 MONTHS $42,500

SHAPIRO, STANLEY K; *METABOLISM AND FUNCTIONS OF S-ADENOSYLMETHIONINE (PCM-7727123 A01)*; 12 MONTHS $30,204

WILDER, GEORGE J; *SYSTEMATIC ANATOMICAL STUDIES OF THE CYCLANTHACEAE (MONOCOTYLEDONEAE) (DEB-7804731 A02)*; 12 MONTHS $22,017

GASSMAN, MERRILL L; *OXIDATION OF CHLOROPHYLL PRECURSORS AND ITS RELATION TO THE CONTROL OF GREENING (PCM-7901605 A01)*; $20,911

CASSMAN, MERRILL L; *OXIDATION OF CHLOROPHYLL PRECURSORS AND ITS RELATION TO THE CONTROL OF GREENING (PCM-7901605 A02)*; 12 MONTHS $49,000

SPIESS, ELIOT B; *THE GENETIC BASIS OF BEHAVIOR OF DROSOPHILA (DEB-7902959 A01)*; 12 MONTHS $38,873

MATSUMURA, PHILIP; *ISOLATION AND CHARACTERIZATION OF CHEMOTAXIS PROTEINS (PCM-7922137)*; 24 MONTHS $80,000

BOUCK, G B; *SCANNING ELECTRON MICROSCOPE (PCM-7922667)*; 12 MONTHS $70,000

POLLACK, EMANUEL D; *1980 MIDWEST REGIONAL DEVELOPMENTAL BIOLOGY CONFERENCE, CHICAGO, ILLINOIS, MAY 8-10, 1980 (PCM-8009010)*; 12 MONTHS $2,500

UNIVERSITY OF ILLINOIS AT URBANA

RAMIREZ, VICTOR D; *NEUROENDOCRINE CONTROL OF LH-RH SECRETION DURING DEVELOPMENT (PCM-7704656 A02)*; 12 MONTHS $30,425

KAPLAN, SAMUEL; *REGULATION OF BACTERIAL CHROMATOPHORE FORMATION (PCM-7715985 A02)*; 12 MONTHS $30,000

BRYANT, MARVIN P; *FATTY AND AROMATIC ACID CATABOLIZING BACTERIA IN METHANOGENIC ECOSYSTEMS (PCM-7717542 A02)*; 6 MONTHS $6,501

HANSON, JOHN B; *STRUCTURAL ORGANIZATION OF CHLOROPLAST MEMBRANES (PCM-7718953 A03)*; $7,700

FRAENKEL, GOTTFRIED S; *HORMONAL CONTROL OF DEVELOPMENT IN FLIES (PCM-7724347 A02)*; 12 MONTHS $46,900

DEVRIES, ARTHUR L; *ROLE OF 'ANTIFREEZE' PEPTIDES IN FREEZING AVOIDANCE OF NORTHERN FISHES (PCM-7725168 A01)*; 24 MONTHS $50,001

WOESE, CARL R; *THE CLASSIFICATION OF PROCARYOTES (DEB-7727492 A09)*; 12 MONTHS $47,535

GARDNER, JEFFREY F; *GENETIC REGULATION OF THE THREONINE OPERON OF ESCHERICHIA (PCM-7907931 A02)*; 12 MONTHS $50,351

UHLENBECK, OLKE C; *STRUCTURE AND FUNCTION OF T4 POLYNUCLEOTIDE KINASE (PCM-7908600 A01)*; 12 MONTHS $40,000

KAUFMANN, KENNETH; *EXCITED STATE DYNAMICS OF CHLOROPHYLL (PCM-7915293 A01)*; 12 MONTHS $40,000

CROFTS, ANTONY R; *THE MECHANISM OF PHOTOSYSTEM II (PCM-7815574 A01)*; 12 MONTHS $45,000

GUNSALUS, IRWIN C; *METABOLIC PLASMIDS: STRUCTURE, TRANSFER AND EXPRESSION (PCM-7921673 A01)*; 12 MONTHS $106,000

OLDFIELD, ERIC; *NUCLEAR MAGNETIC RESONANCE STUDIES OF THE STRUCTURE OF MODEL AND BIOLOGICAL MEMBRANES (PCM-7923001 A01)*; 12 MONTHS $55,000

MAXSON, LINDA E; *EVOLUTIONARY AND SYSTEMATIC STUDIES IN AMPHIBIANS USING MOLECULAR PROBES (DEB-7823396 A01)*; $6,144

MAXSON, LINDA E; *EVOLUTIONARY AND SYSTEMATIC STUDIES IN AMPHIBIANS USING MOLECULAR PROBES (DEB-7823396 A02)*; 12 MONTHS $23,500

BAZZAZ, F A; *COLLABORATIVE STUDIES ON GENETIC POLYMORPHISM AND NICHE WIDTH IN PHLOX (DEB-7823657 A01)*; 12 MONTHS $30,000

GOVINDJEE, - -; *ROLE OF BICARBONATE IN REGULATING PHOTOSYNTHETIC ELECTRON FLOW (PCM-7824521*)*; 12 MONTHS $23,300

WOLFE, RALPH S; *METHYL-TRANSFER REACTIONS IN METHANOGENS AND ACETOGENS (PCM-7825141 A01)*; 12 MONTHS $45,000

GETZ, LOWELL L; *SOCIAL ORGANIZATON AND POPULATION REGULATION IN MICROTUS (DEB-7825864)*; 24 MONTHS $54,990

FRAUENFELDER, HANS, DEBRUNNER, PETER G, AND EISENSTEIN, LAURA; *PHYSICAL STUDIES OF BIOMOLECULES (PCM-7905071)*; 12 MONTHS $95,000

LARSON, BRUCE L; *TRANSPORT MECHANISM FOR IGG1 ACROSS THE MAMMARY SECRETORY CELL (PCM-7909053 A01)*; 12 MONTHS $53,000

HAGER, LOWELL P; *BIOLOGICAL HALOGENATION MECHANISMS (PCM-7910656 A01)*; $7,200

HAGER, LOWELL P; *BIOLOGICAL HALOGENATION MECHANISMS (PCM-7910656 A02)*; 12 MONTHS $44,000

GUTOWSKY, H S; *NUCLEAR MAGNETIC RESONANCE (PCM-7911148*)*; 12 MONTHS $27,500

SEIGLER, DAVID S, AND HO, D T; *LIQUID CHROMATOGRAPH AND A SCINTILLATION COUNTER (PCM-7911573)*; 12 MONTHS $45,000

EBREY, THOMAS G; *LIGHT ENERGY TRANSDUCTION IN THE PURPLE MEMBRANE OF HALOBACTERIUM HALOBIUM (PCM-7911772 A01)*; 12 MONTHS $40,000

LYNCH, MICHAEL R; *THE ADAPTIVE SIGNIFICANCE OF CLADOCERAN LIFE HISTORIES (DEB-7911773 A01)*; 12 MONTHS $34,730

DE VRIES, YUAN L; *ENVIRONMENTAL CONTROL OF GENE EXPRESSION IN COLD-ADAPTED FISH (PCM-7912174 A01)*; 12 MONTHS $53,000

HANSON, JOHN B; *INCREASED ION ABSORPTION RATES INDUCED BY WASHING OF ROOT TISSUE (PCM-7913406)*; 12 MONTHS $47,941

PROSSER, C LADD; *PHYSIOLOGICAL MECHANISMS OF TEMPERATURE ADAPTATION IN FISHES (PCM-7914186)*; 12 MONTHS $41,585

GRATTON, ENRICO; *SOLVENT EFFECTS ON ENZYME DYNAMICS (PCM-7918646)*; 24 MONTHS $70,000

CAMERON, JOANN; *SOURCE OF MYOBLASTS IN AMPHIBIAN MUSCLE REGENERATION (PCM-7919338)*; 12 MONTHS $45,000

SHAPIRO, DAVID J; *CONTROL OF GENE EXPRESSION IN HORMONE DEPENDENT DIFFERENTIATION (PCM-7920671)*; 12 MONTHS $65,000

BAHR, JANICE M, AND CALVO, FRANCISCO; *MECHANISM OF HORMONE ACTION IN OVARIAN FOLLICLES (PCM-7922687)*; 12 MONTHS $33,725

GUNSALUS, IRWIN C, AND DEBRUNNER, PETER G; *X-BAND EPR SPECTROMETER (PCM-7922714)*; 12 MONTHS $80,000

OLDFIELD, ERIC; *CARBON-13 NMR OF LABELLED PROTEIN CRYSTALS (PCM-7923170)*; 12 MONTHS $70,000

HESPELL, ROBERT B; *INTERACTIONS OF MICROBIAL COHABITANTS AND THEIR ECOSYSTEM (PCM-7923492)*; 24 MONTHS $24,214

BALDWIN, THOMAS O; *THE STRUCTURE AND ACTION OF BACTERIAL LUCIFERASE: A MODEL FLAVIN HYDROXYLASE SYSTEM (PCM-7925335)*; 12 MONTHS $43,000

CRONAN, JOHN E; *METABOLIC FUNCTION OF PROTEIN - LIPID INTERACTION (PCM-7925689)*; 12 MONTHS $39,000

DOERDER, F PAUL; *GENETIC CONTROL OF DIFFERENTIAL GENE EXPRESSION (PCM-8000714)*; 12 MONTHS $48,000

POULSON, THOMAS L; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8002015)*; 17 MONTHS $5,100

CAROTHERS, ZANE B; *BLEPHAROPLASTS AND SPERMATOZOIDS AS SOURCES OF NEW PHYLOGENETIC INFORMATION (DEB-8004265)*; 12 MONTHS $23,405

HONIG, BARRY H; *THEORETICAL STUDIES OF BIOLOGICAL CHROMOPHORES (PCM-8010931)*; 24 MONTHS $125,000

DE VRIES, YUAN L; *PURCHASE OF AN ULTRACENTRIFUGE (PCM-8010973)*; 12 MONTHS $9,340

WRAIGHT, COLIN A; *CHARGE STABILIZATION PROCESSES IN PHOTOSYNTHESIS (PCM-8012032)*; 12 MONTHS $71,000

SWITZER, ROBERT L; *STRUCTURE AND FUNCTION OF A NOVEL IRON-SULFUR PROTEIN (PCM-8013476*)*; 12 MONTHS $32,000

UNIVERSITY OF ILLINOIS MEDICAL CTR AT CHICAGO

HANLON, MARY SUE; *INTERACTIONS OF NUCLEIC ACIDS AND RELATED MODELS (PCM-7724879 A01)*; 24 MONTHS $105,000

CRACRAFT, JOEL; *PHYLOGENY OF NON-PASSERIFORMES (AVES) (DEB-7921493)*; 12 MONTHS $20,743

LANDS, WILLIAM E; *PEROXIDE ACTIONS ON PROSTAGLANDIN BIOSYNTHESIS (PCM-8015638)*; 12 MONTHS $75,537

INDIANA

EARLHAM COLLEGE

IVERSON, JOHN B; *SYSTEMATICS OF KINOSTERNIDAE (DEB-8005566)*; 18 MONTHS $16,853

INDIANA STATE UNIVERSITY

DUSANIC, DONALD G; *IMMUNOLOGICAL STUDIES OF RODENT TRYPANOSOMES (PCM-7823939 A01)*; $14,982

SCHOKNECHT, JEAN D, HOWE, ROBERT C, GOFF, CHARLES W, AND SWEZ, JOHN A; *SCANNING ELECTRON MICROSCOPE AND ACCESSORIES (PCM-8005911)*; 12 MONTHS $50,000

INDIANA UNIVERSITY, BLOOMINGTON

SAN PIETRO, ANTHONY; *STUDY OF PHOTOSYNTHESIS: METABOLIC INTERRELATIONS OF SEVERAL PARTIAL REACTIONS (PCM-7503415 A04)*; 12 MONTHS $69,892

MALACINSKI, GEORGE M; *REGULATION OF GENE ACTION IN EARLY EMBRYOGENESIS (PCM-7704457 A03)*; $8,130

SHINER, VERNON J; *SECONDARY DEUTERIUM ISOTOPE EFFECTS AND ENZYMATIC REACTION MECHANISMS (PCM-7711294 A02)*; 12 MONTHS $50,000

MAHOWALD, ANTHONY P; *CELLULAR DETERMINATION BY THE GERM PLASM OF THE DROSOPHILA EMBRYO (PCM-7725427 A02)*; 12 MONTHS $78,439

MAHLBERG, PAUL G; *EVOLUTION OF THE LATICIFER IN EUPHORBIA (DEB-7909045 A03)*; 12 MONTHS $17,068

MAHLER, HENRY R; *DYNAMICS OF YEAST PLASMA MEMBRANES (PCM-7818393 A01)*; 12 MONTHS $46,398

DILCHER, DAVID L; *EARLY ANGIOSPERM EVOLUTION AND ECOLOGY (DEB-7910799)*; 12 MONTHS $103,827

GEST, HOWARD; *NITROGEN FIXATION, HYDROGEN METABOLISM, AND BIOENERGETIC REGULATION IN PHOTOSYNTHETIC BACTERIA* (PCM-7910747); 12 MONTHS $89,000

KOCH, ARTHUR L; *SELECTIVE DISADVANTAGE OF ANTIBIOTIC RESISTANCE MECHANISMS* (PCM-7911241); 24 MONTHS $80,000

ALLERHAND, ADAM; *STRUCTURE AND DYNAMICS OF LARGE MOLECULES IN SOLUTION. CARBON-13 NUCLEAR MAGNETIC RESONANCE STUDIES* (PCM-7916839 A01); 12 MONTHS $60,000

SCHWARTZ, DREW; *THE REGULATION OF GENE ACTION IN MAIZE* (PCM-7921230); 12 MONTHS $45,142

RICHMOND, ROLLIN C; *ESTERASE 6 AND REPRODUCTIVE BEHAVIOR IN DROSOPHILA* (BNS-7921743*); 24 MONTHS $45,064

RANDOLPH, JAMES C; *COLLABORATIVE RESEARCH ON THE FORAGING ECOLOGY OF SIGMODON HISPIDUS* (DEB-7921766); 24 MONTHS $39,421

WATSON, MAXINE A; *POPULATION REGULATION IN THE WATER HYACINTH* (DEB-7923425); 12 MONTHS $42,000

FREY, DAVID G; *THE CHYDORID CLADOCERA OF NORTH AMERICA* (DEB-8002627); 36 MONTHS $92,334

MILLER, CARLOS O; *ROLES OF CYTOKININS IN PLANTS* (PCM-8003749); 24 MONTHS $70,000

RAFF, ELIZABETH C; *BIOCHEMICAL AND GENETIC REGULATION OF MORPHOGENESIS: THE CONTROL OF MICROTUBULE ASSEMBLY DURING SPERMATOGENESIS IN DROSOPHILA* (PCM-8005701); 12 MONTHS $50,000

MALACINSKI, GEORGE M; *GENETIC STOCKS OF THE AXOLOTL, AMBYSTOMA MEXICANUM* (DEB-8010618); 12 MONTHS $60,000

HEGEMAN, GEORGE D; *CONFERENCE ON GENETICS AND MOLECULAR BIOLOGY OF INDUSTRIAL MICROORGANISMS, OCTOBER 5-9, 1980, BLOOMINGTON, INDIANA* (PCM-8015771); 6 MONTHS $1,500

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

OLSON, KENNETH R; *VASCULAR PATHWAYS IN FISH GILLS AND THEIR FUNCTION IN RESPIRATION AND OSMOREGULATION* (PCM-7923073); 12 MONTHS $32,000

PURDUE UNIVERSITY

DILLEY, RICHARD A; *BIOCHEMISTRY OF CHLOROPLAST MEMBRANES* (PCM-7601540 A04); 6 MONTHS $15,971

FERRIS, VIRGINIA R; *SYSTEMATICS OF THE DORYLAIMIDA (NEMATODA)* (DEB-7712656 A02); 12 MONTHS $25,200

LASKOWSKI, MICHAEL; *SYNTHESES OF PEPTIDE BONDS CATALYZED BY PROTEINASES* (PCM-7717554 A02); 12 MONTHS $35,000

JACKSON, ANDREW O; *VIRAL MESSENGER RNA'S FROM PLANTS INFECTED WITH A PLANT RHABDOVIRUS* (PCM-7718019 A01); 24 MONTHS $80,000

LARKINS, BRIAN A; *REGULATION OF ZEIN BIOSYNTHESIS DURING MAIZE ENDOSPERM DEVELOPMENT* (PCM-7724210 A01); $3,000

MORTENSON, LEONARD E; *ELECTRON TRANSPORT AND ENERGY METABOLISM BY BACTERIA* (PCM-7724655 A03); 12 MONTHS $48,000

CRAMER, WILLIAM A; *ELECTRON AND PROTON TRANSFER REACTIONS IN PHOTOSYNTHETIC ENERGY TRANSDUCTION* (PCM-7725196 A02); 12 MONTHS $40,000

LOVETT, JAMES S; *REGULATION OF MESSENGER RNA STORAGE AND TRANSLATION IN FUNGAL DEVELOPMENT* (PCM-7808956 A02); 12 MONTHS $40,001

ROSSMANN, MICHAEL G; *X-RAY DETERMINATION OF PROTEINS AND VIRUSES* (PCM-7816584 A01); 12 MONTHS $80,000

CRANE, FREDERICK L; *PHOTOSYNTHETIC ELECTRON TRANSPORT* (PCM-7820458); 12 MONTHS $37,870

BRENCHLEY, JEAN E; *REGULATION OF AMMONIA ASSIMILATION IN SALMONELLA* (PCM-7820882 A01); 12 MONTHS $58,370

JAFFE, LIONEL F; *CONTROL OF EARLY DROSOPHILA DEVELOPMENT BY STEADY IONIC CURRENTS* (PCM-7820056 A01); 12 MONTHS $54,000

KROGMANN, DAVID W; *PHOTOSYNTHETIC PHOSPHORYLATION AND ELECTRON TRANSPORT* (PCM-7900310 A01); 12 MONTHS $60,141

KONOPKA, ALLAN; *PHYSIOLOGICAL ECOLOGY OF PLANKTONIC BLUE-GREEN ALGAE* (DEB-7904382 A01); 12 MONTHS $34,000

ARONSON, ARTHUR I; *STRUCTURE AND FUNCTION OF BACILLUS THURINGIENSIS* (PCM-7907591*); 12 MONTHS $16,000

JOHNSON, JOHN E; *STRUCTURAL STUDIES OF A MULTICOMPONENT RNA PLANT VIRUS* (PCM-7911010 A01); 12 MONTHS $60,000

TSAI, MING-DAW; *STEREOCHEMISTRY OF ENZYME REACTIONS INVOLVING A PROPROCHIRAL PHOSPHORUS CENTER* (PCM-7911478); 12 MONTHS $38,000

HOWARD, RICHARD D; *LIFE HISTORY STRATEGIES IN RANA CATESBEIANA* (DEB-8002061); 12 MONTHS $17,220

MORRE, D J; *DE NOVO BIOGENESIS OF ENDOPLASMIC RETICULUM* (PCM-8003127); 24 MONTHS $90,000

LARKINS, BRIAN A; *ANALYSIS OF ZEIN GENE EXPRESSION DURING MAIZE ENDOSPERM DEVELOPMENT* (PCM-8003757); 12 MONTHS $75,000

SOLOMON, BRUCE P; *PHENOLOGICAL RESPONSES TO HERBIVORY IN SOLANUM CAROLINENSE* (DEB-8004288); 24 MONTHS $53,041

ARGOS, PATRICK; *ATOMIC STRUCTURE OF VIRUSES BY X-RAY DIFFRACTION* (PCM-8004575); 12 MONTHS $50,000

AXELROD, BERNARD; *MECHANISM OF ACTION OF LIPID DIOXYGENASES* (PCM-8011890); 12 MONTHS $42,000

RAY, WILLIAM J, AND BURGNER, JOHN W; *MECHANISTIC STUDIES ON THE LACTATE DEHYDROGENASE REACTION* (PCM-8012570); 24 MONTHS $64,000

UNIVERSITY OF NOTRE DAME

GOETZ, FREDERICK W; *ENDOCRINE CONTROL OF OOCYTE FINAL MATURATION AND OVULATION* (PCM-7915395); 24 MONTHS $43,000

CROVELLO, THEODORE J; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY* (DEB-8016201); 6 MONTHS $1,045

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY-AGRICULTURAL EXPERIMENT STATION

NORDSKOG, ARNE W; *PURCHASE OF A FLUORESCENCE MICROSCOPE* (PCM-7912098); 6 MONTHS $15,000

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

WARNER, CAROL M; *THE IMMUNE RESPONSE OF ALLOPHENIC MICE* (PCM-7715646 A02); 12 MONTHS $38,000

BREMNER, JOHN M; *NATURAL AND FERTILIZER-INDUCED EMISSIONS OF NITROUS OXIDE FROM SOILS* (DEB-7723835 A02*); 12 MONTHS $54,333

BISHOP, STEPHEN H; *ROLE OF AMINO ACIDS IN CELL VOLUME REGULATION* (PCM-7809771 A01); $4,450

NEVINS, DONALD J; *MOLECULAR BASIS FOR CELL GROWTH IN PLANTS* (PCM-7818588); 12 MONTHS $58,650

HOROWITZ, JACK; *ACQUISITION OF EQUIPMENT FOR ULTRACENTRIFUGE FACILITY* (PCM-7908784); 12 MONTHS $25,000

ROBERTSON, DONALD S; *GENETIC ANALYSIS OF A MUTATOR SYSTEM IN MAIZE* (PCM-7923052); 12 MONTHS $45,000

SHEN, SHELDON S; *REGULATION OF INTRACELLULAR PH IN THE EGG AND EARLY EMBRYO OF THE SEA URCHIN* (PCM-8003732); 12 MONTHS $60,000

HALLBERG, RICHARD; *RIBOSOMAL PROTEIN SYNTHESIS AND UTILIZATION IN WILD TYPE AND MUTANT TETRAHYMENA* (PCM-8011475); 12 MONTHS $48,000

UNIVERSITY OF IOWA-COLLEGE OF MEDICINE

DONELSON, JOHN E; *PROLACTIN, IMMUNOGLOBULIN & MITOCHONDRIAL GENE ORGANIZATION AND EXPRESSION* (PCM-7821095 A01); 12 MONTHS $70,000

OAKS, JOHN A; *BIOGENESIS OF CESTODE SURFACE MEMBRANE* (PCM-7911770 A01); 12 MONTHS $55,000

UNIVERSITY OF IOWA

STAHLY, DONALD P; *SPORULATION AND THE LYSINE BIOSYNTHETIC PATHWAY* (PCM-7823157 A01); 12 MONTHS $47,632

WANG, WEI YEH; *S AMINOLEVULINATE BIOSYNTHESIS IN PLANT MITOCHONDRIA* (PCM-7823365); 24 MONTHS $81,055

CARLSON, WAYNE R; *GENES CONTROLLING DISJUNCTION OF THE B CHROMOSOME IN CORN* (PCM-7911063); 12 MONTHS $45,000

CRUDEN, ROBERT W; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY* (DEB-7914012); 12 MONTHS $2,387

FRANKEL, JOSEPH; *ANALYSIS OF CELL-SURFACE PATTERNING IN A CILIATE* (PCM-7921405); 12 MONTHS $74,964

DINGLE, HUGH; *INSECT MIGRATION AND LIFE HISTORY STRATEGIES* (DEB-7922144); 12 MONTHS $48,441

HUBBELL, STEPHEN P; *DEMOGRAPHIC ANALYSIS OF A TROPICAL FOREST IN PANAMA* (DEB-7922197); 12 MONTHS $75,000

HOWE, HENRY F; *ECOLOGY OF A NEOTROPICAL SEED-DISPERSAL SYSTEM* (DEB-7922237); 24 MONTHS $47,972

WANG, WEI YEH; *MUTATIONAL ANALYSIS OF PROTOCHLOROPHYLLIDE REDUCTION* (PCM-7923059); 24 MONTHS $70,000

BEAMS, HAROLD W; *FERTILIZATION, CORTICAL REACTION, AND BLASTODISC FORMATION IN THE ZEBRAFISH* (PCM-8011708); 24 MONTHS $35,000

KANSAS

KANSAS STATE UNIVERSITY-AGRICULTURAL EXPERIMENT STATION

GILL, BIKRAM S; *CYTOGENETIC ANALYSIS OF REGENERATED PLANT POLULATIONS FROM MESOPHYLL PROTOPLASTS OF POTATO* (PCM-8003842); 24 MONTHS $70,000

KANSAS STATE UNIVERSITY

BARKLEY, THEODORE M; *FLORA OF THE GREAT PLAINS* (DEB-7908508 A03); 12 MONTHS $30,839

BARKLEY, THEODORE M; *FLORA OF THE GREAT PLAINS* (DEB-7908508 A04); $7,685

DENELL, ROBIN E; *A CHROMOSOMAL REGION OF UNIQUE DEVELOPMENTAL IMPACT IN DROSOPHILA* (PCM-7907710 A03); 12 MONTHS $45,000

MARZOLF, GEORGE R; *THE ROLE OF SILTS AND CLAYS IN THE NUTRITION OF ZOOPLANKTON* (DEB-7822629 A01); 12 MONTHS $29,370

WONG, PETER P; *ELECTRON TRANSPORT TO RHIZOBIUM NITROGENASE AND NITRATE REDUCTASE* (PCM-7904063); 12 MONTHS $36,000

RODKEY, LEO S; *AUTOREGULATION OF IMMUNE PROCESSES* (PCM-7921110); 12 MONTHS $45,000

SMITH, C C; *THE BIOLOGICAL CONSEQUENCES OF WIND POLLINATION IN LODGEPOLE PINE* (DEB-7922190); 24 MONTHS $100,948

HULBERT, LLOYD C; *FIRE EFFECTS IN BLUESTEM PRAIRIE* (DEB-7922203); 12 MONTHS $34,395

AYERS, ARTHUR R, AND SHEPARD, JAMES F; *MOLECULAR MECHANISMS RESPONSIBLE FOR DISEASE RESISTANCE* (PCM-7922853); 24 MONTHS $75,000

HOPKINS, THEODORE L; *REGULATION OF TYROSINE METABOLISM FOR INSECT CUTICLE TANNING* (PCM-8003939); 24 MONTHS $75,000

MARZOLF, GEORGE R; *DOCTORAL DISSERTATION RESEARCH IN ECOSYSTEM STUDIES* (DEB-8005963); 18 MONTHS $9,650

MARZOLF, GEORGE R; *THE ROLE OF FIRE AND OTHER DISTURBANCES IN DETERMINING ECOSYSTEM PROCESSES AND PATTERNS IN THE KONZA PRAIRIE, KANSAS* (DEB-8012168*); 12 MONTHS $247,651

UNIVERSITY OF KANSAS MAIN CAMPUS

MICHENER, CHARLES D; *THE EVOLUTION AND SYSTEMATICS OF APIDAE* (DEB-7729035 A02); 12 MONTHS $50,000

BORCHERT, ROLF; *CORRELATIONAL VS. ENVIRONMENTAL CONTROL OF SHOOT GROWTH IN TREES* (DEB-7724616 A01); 3 MONTHS $5,445

WELLS, PHILIP V; *BIOTIC AND CLIMATIC CHANGE IN WESTERN NORTH AMERICA* (DEB-7811187 A02); 12 MONTHS $63,047

KITOS, PAUL A; *A SPECTROMETER* (PCM-7922228); 12 MONTHS $35,819

DUELLMAN, WILLIAM E; *SYSTEMATICS OF NEOTROPICAL HYLIDAE* (DEB-8003513); 24 MONTHS $65,113

HOFFMANN, ROBERT S; *COLLABORATIVE RESEARCH ON SYSTEMATICS OF HOLARCTIC MAMMALS* (DEB-8004148); 12 MONTHS $38,200

MARTIN, LARRY D, AND GILBERT, B MILES; *PALEONTOLOGY AND PALEOECOLOGY OF NATURAL TRAP CAVE* (DEB-8004155); 24 MONTHS $62,400

BELL, WILLIAM J; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY* (DEB-8007554*); 8 MONTHS $1,995

HALL, E R; *A SYSTEMATIC CLASSIFICATION OF NORTH AMERICAN URSUS* (DEB-9014252); 24 MONTHS $36,254

UNIVERSITY OF KANSAS MEDICAL CENTER

EBNER, KURT E; *GALACTOSYLTRANSFERASE AND LACTALBUMIN OF THE LACTOSE SYNTHETASE SYSTEM* (PCM-7720614 A02); 12 MONTHS $35,000

FISHER, HARVEY F; *THE ENERGETICS AND MECHANISMS OF ENZYME CATALYZED REACTIONS* (PCM-7926254 A01); 12 MONTHS $45,000

FISKIN, A M; *ELECTRON CYTOCHEMISTRY OF GLUCOCORTICOID EFFECTS ON SURFACE PHOSPHOESTERASES* (PCM-7925685); 24 MONTHS $39,892

KENTUCKY

UNIVERSITY OF KENTUCKY

CHENIAE, GEORGE M; *FUNCTIONS OF MANGANESE IN PHOTOSYNTHETIC O2 EVOLUTION* (PCM-7907494 A01); 12 MONTHS $63,495

RAWLS, JOHN M; *GENETIC ANALYSIS OF PYRIMIDINE BIOSYNTHETIC ENZYMES* (PCM-7814164 A02); 12 MONTHS $50,000

ROSENTHAL, GERALD A; *CHEMISTRY OF NON-PROTEIN AMINO ACIDS* (PCM-7920167*); 12 MONTHS $19,700

HURLEY, LAURENCE H; *BIOSYNTHETIC STUDIES ON THE PYRROLO (1,4) BENZODIAZEPINE AND LINCOMYCIN ANTIBIOTICS* (PCM-7923087*); 24 MONTHS $14,463

BENHAM, CRAIG J; *THEORETICAL ANALYSIS OF SECONDARY AND TERTIARY STRUCTURE IN STRESSED DNA* (PCM-8000814); 24 MONTHS $27,500

UNIVERSITY OF LOUISVILLE-SCHOOL OF MEDICINE

DOYLE, RONALD J, AND STREIPS, ULDIS N; *CELL WALL DNA INTERACTIONS IN BACTERIA* (PCM-7909903 A02); 12 MONTHS $36,650

RAMP, WARREN K; *EFFECTS OF VITAMIN D ON BONE* (PCM-7918904); 12 MONTHS $48,000

COX, HOLLACE L; *RELAXATION TIME MEASUREMENTS FOR DNA INTERCALATING DYES AND DRUGS DETERMINED BY LASER FREQUENCY MIXING TECHNIQUES USING OPTICAL WAVEGUIDES* (PCM-8923911); 12 MONTHS $32,997

UNIVERSITY OF LOUISVILLE

ATLAS, R M; *ACQUISITION OF A MULTI-USER SCANNING ELECTRON MICROSCOPE* (DEB-7922129); 12 MONTHS $22,000

LOUISIANA

LOUISIANA STATE UNIVERSITY MEDICAL CENTER

DESBAUER, HERBERT C; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY* (DEB-7920663); 24 MONTHS $5,250

LOUISIANA STATE UNIVERSITY, BATON ROUGE

PATRICK, WILLIAM H; *NITROUS OXIDE PRODUCTION IN THE DENITRIFICATION PROCESS IN WETLAND ECOSYSTEMS AND ACID SOILS* (DEB-7727590 A01); 12 MONTHS $60,696

MATTICE, WAYNE L; *CONFORMATIONAL CHANGES INDUCED IN PROTEINS BY LIPIDS* (PCM-7922916 A01); 12 MONTHS $35,000

DIETZ, THOMAS H; *IONIC REGULATION IN THE FRESHWATER MUSSELS* (PCM-7921089); 12 MONTHS $26,932

STICKLE, WILLIAM B; *EFFECTS OF TEMPERATURE AND SALINITY ON A SPECIES OF GASTROPOD* (DEB-7911825); 24 MONTHS $72,000

TULANE UNIVERSITY-DELTA REGIONAL PRIMATE RESEARCH CENTER

LI, YU-TEH; *THE GLYCOSIDASES INVOLVED IN THE DEGRADATION OF COMPLEX CARBOHYDRATES* (PCM-7911449); 12 MONTHS $36,000

UNIVERSITY OF SOUTHWESTERN LOUISIANA

ELLINGTON, WILLIAM R; *METABOLIC RESPONSES OF A SEA ANEMONE TO HYPOXIA* (PCM-7922683); 24 MONTHS $36,100

MAINE

BATES COLLEGE

PITELKA, LOUIS F; *ECOLOGY OF UNDERSTORY PLANTS IN FOREST COMMUNITIES* (DEB-7923149); 24 MONTHS $55,854

JACKSON LABORATORY

RODERICK, THOMAS H; *MOUSE MUTANT STOCKS CENTER* (DEB-7924708); 12 MONTHS $110,000

BEDIGIAN, HENDRICK G; *VIRAL ONCOGENESIS IN THE RABBIT* (PCM-8005503); 12 MONTHS $40,929

FELTON, JAMES S; *TENTH ANNUAL BIOCHEMICAL GENETICS WORKSHOP; BAR HARBOR, MAINE, SEPTEMBER 3-7, 1990* (PCM-8016393); 12 MONTHS $2,570

MOUNT DESERT ISLAND BIOLOGICAL LABORATORY

GOLDSTEIN, LEON; *PURCHASE OF SCINTILLATION COUNTER* (PCM-7908554); 12 MONTHS $18,670

EPSTEIN, FRANKLIN H; *MODELS FOR ACTIVE CHLORIDE TRANSPORT* (PCM-7922685); 12 MONTHS $42,000

UNIVERSITY OF MAINE, ORONO

DAVIS, RONALD B, AND NORTON, STEPHEN A; *PALEOLIMNOLOGICAL INVESTIGATION OF THE EFFECTS OF ATMOSPHERIC INPUTS OF ACIDS AND HEAVY METALS ON LAKE ECOSYSTEM CHEMISTRY AND PLANKTON* (DEB-7810641 A02); $15,904

DAVIS, RONALD B, AND NORTON, STEPHEN A; *PALEOLIMNOLOGICAL INVESTIGATION OF THE EFFECTS OF ATMOSPHERIC INPUTS OF ACIDS AND HEAVY METALS ON LAKE ECOSYSTEM CHEMISTRY AND PLANKTON* (DEB-7810641 A03); 12 MONTHS $78,234

RINGO, JOHN M; *EXPERIMENTAL ANALYSIS OF SPECIATION MECHANISMS* (DEB-7903988 A01); 12 MONTHS $39,266

SHICK, J MALCOLM; *PHYSIOLOGICAL ADAPTATIONS IN INTERTIDAL INVERTEBRATES* (PCM-7911027 A01); 12 MONTHS $19,593

JACOBSON, GEORGE L, AND DAVIS, RONALD B; *VEGETATION DEVELOPMENT AND CLIMATIC CHANGE IN MAINE DURING THE PAST 14,000 YEARS* (DEB-8006171); 12 MONTHS $50,556

MARYLAND

AMERICAN TYPE CULTURE COLLECTION

DAGGETT, PIER-MARC; *DEVELOPMENT OF THE ATCC PROTOZOAN COLLECTION* (DEB-7907338 A01); 12 MONTHS $63,970

JONG, S C; *QUALITY CONTROL IN THE AMERICAN TYPE CULTURE COLLECTION* (DEB-7921031); 12 MONTHS $96,875

GHERNA, ROBERT L; *TAXONOMIC STATUS OF THE BACTERIA OF THE AMERICAN TYPE CULTURE COLLECTION* (DEB-7921459); 12 MONTHS $95,500

BIOPHYSICAL SOCIETY

TANFORD, CHARLES; *CONFERENCE ON "PROTEINS AND NUCLEOPROTEINS" MAY 1990, WASHINGTON, DC* (PCM-7927089); 12 MONTHS $3,000

JOHNS HOPKINS UNIVERSITY

SHEARN, ALLEN; *IMAGINAL DISC DEVELOPMENT IN DROSOPHILA* (PCM-7726599 A01); 2 MONTHS $6,622

GAFFNEY, BETTY J; *VIRAL GLYCOPROTEINS: CONFORMATION, SYNTHESIS AND USES* (PCM-7725974 A01); 12 MONTHS $50,000

HUNT, RICHARD K; *DEVELOPMENT OF NERVE CELL SPECIFICITY* (PCM-7726907 A01); 12 MONTHS $55,000

PIGIET, VINCENT P; *THE ROLE OF THIOREDOXIN IN PHORPHOTRANSFERASE REACTIONS* (PCM-7901397 A01); 12 MONTHS $40,000

MOUDRIANAKIS, EVANGELOS N; *ROLE OF COUPLING FACTOR BOUND ADENYLATES IN ATP SYNTHESIS BY CHLOROPLASTS* (PCM-7907989 A02); 12 MONTHS $36,000

POWERS, DENNIS A; *MOLECULAR EVOLUTION IN FISH* (DEB-7912214 A01); 12 MONTHS $47,941

HARTIG, PAUL R, AND BRAND, LUDWIG; *EQUIPMENT FOR FLUORESCENCE MEASUREMENTS* (PCM-7924496); 12 MONTHS $32,300

JOHNS HOPKINS UNIVERSITY-SCHOOL OF HYGIENE & PUBLIC HEALTH

TSO, PAUL O; *CONFORMATION AND INTERACTION OF NUCLEIC ACIDS* (PCM-7725208 A02); 12 MONTHS $50,000

GROSSMAN, LAWRENCE; *PURCHASE OF FERMENTATION EQUIPMENT* (PCM-7911549); 12 MONTHS $100,000

GROSSMAN, LAWRENCE; *FERMENTATION EQUIPMENT TO GROW BACTERIA* (PCM-7911549 A01*); $20,000

GROSSMAN, LAWRENCE; *ENZYMATIC REPAIR OF DNA: COMPARATIVE STUDIES* (PCM-7914191); 12 MONTHS $45,000

JOHNS HOPKINS UNIVERSITY-SCHOOL OF MEDICINE

MAYER, MANFRED M; *IMMUNOLOGICAL AND CHEMICAL STUDIES OF THE COMPLEMENT SYSTEM* (PCM-7716007 A02); 12 MONTHS $60,000

PITHA, PAULA M; *HUMAN INTERFERON-NATURE OF MOLECULAR MECHANISM INVOLVED IN THE INDUCTION AND ACTION* (PCM-7724987 A02); 12 MONTHS $21,106

ISHIZAKA, KIMISHIGE; *IGE RECEPTORS ON LYMPHOCYTES AND MAST CELLS* (PCM-7810675 A01); 12 MONTHS $39,000

LENNARZ, WILLIAM J; *MECHANISM OF BIOSYNTHESIS OF THE POLY-MANNOSE AND COMPLEX OLIGOSACCHARIDE CHAINS OF N-GLYCOSIDICALLY LINKED GLYCOPROTEINS* (PCM-7911197 A01); 12 MONTHS $36,000

PEDERSEN, PETER L; *PHOSPHATE TRANSPORT PROCESSES OF ANIMAL CELLS* (PCM-7813249 A02); 12 MONTHS $53,068

LEHNINGER, ALBERT L; *MITOCHONDRIAL CALCIUM AND ITS ROLE IN BIOLOGICAL CALCIFICATION* (PCM-7919190 A02); 12 MONTHS $40,000

LANE, M DANIEL; *PURCHASE OF ELECTRON MICROSCOPY EQUIPMENT* (PCM-7906963); 12 MONTHS $75,000

ROGUS, ELLEN M; *FREE CALCIUM IN CELLS: A METHOD AND ITS USE IN INSULIN STUDIES* (PCM-8003725); 24 MONTHS $60,135

MARTIN MARIETTA CORPORATION-MARTIN MARIETTA LABORATORY

RADMER, RICHARD; *RESEARCH IN PHOTOSYNTHESIS* (PCM-7708606 A02); 12 MONTHS $97,700

UNIVERSITY OF MARYLAND BALTIMORE PROF SCHOOLS

ROSEN, BARRY P; *ACTIVE EFFLUX OF CATIONS IN ESCHERICHIA COLI* (PCM-7717502 A02); 12 MONTHS $97,304

SHAMOO, ADIL Y; *CALCIPHORIN STRUCTURE AND FUNCTION* (PCM-7906747 A01); 12 MONTHS $52,000

BLAUSTEIN, MORDECAI P; *SODIUM AND CALCIUM TRANSPORT IN BARNACLE MUSCLE FIBERS AND SQUID AXONS* (PCM-7911704); 12 MONTHS $52,205

GEARHART, JOHN D; *ACQUISITION OF EQUIPMENT FOR MAMMALIAN DEVELOPMENTAL STUDIES* (PCM-7918945); 12 MONTHS $14,045

POGELL, BURTON M; *CONTROL OF DIFFERENTIATION AND ANTIBIOTIC BIOSYNTHESIS IN STREPTOMYCETES* (PCM-8003519); 24 MONTHS $70,000

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

LOVETT, PAUL S; *STUDIES OF BACTERIAL SPORULATION THROUGH MOLECULAR CLONING IN BACILLUS* (PCM-7908755 A02); 12 MONTHS $49,409

KLOETZEL, JOHN A; *NUCLEAR ROLES IN THE PROGRAMMING OF CELLULAR DEVELOPMENT IN THE CILIATE EUPLOTES* (PCM-8004057); 24 MONTHS $75,000

BURCHARD, ROBERT P; *STUDIES OF THE MECHANISM(S) OF BACTERIAL GLIDING MOTILITY* (PCM-8011150); 24 MONTHS $90,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

COLWELL, RITA R; *SYSTEMATICS OF THE GENUS VIBRIO* (DEB-7716464 A02); 12 MONTHS $57,700

SMITH-GILL, SANDRA J, AND GILL, DOUGLAS E; *ENVIRONMENTALLY INDUCED AND HERITABLE VARIATION IN DEVELOPMENT AND REPRODUCTION* (DEB-7910932 A02); 12 MONTHS $37,080

HIGHTON, RICHARD; *THE GENETIC VARIATION OF SPECIES OF THE GENUS PLETHODON* (DEB-7908956 A02); 12 MONTHS $41,000

AMMON, HERMAN L; *STRUCTURAL STUDIES OF GLUTAMINASE-ASPARAGINASES* (PCM-7907501 A01); 12 MONTHS $45,000

MATHER, IAN H; *MEMBRANE ANTIGENS IN MAMMARY TISSUE* (PCM-7914601 A01); 12 MONTHS $50,965

PATTERSON, GLENN W; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY* (DEB-7910647); 24 MONTHS $5,550

CORLISS, JOHN O; *HOMOKARYOTIC FORMS AND THE PHYLOGENETIC ORIGIN OF THE CILIATED PROTOZOA* (DEB-7914449); 18 MONTHS $7,500

VIGIL, EUGENE L; *STUDIES ON ORGANELLE DEVELOPMENT DURING SEED GERMINATION* (PCM-7912988); 24 MONTHS $50,000

ALLAN, J DAVID; *LIFE HISTORY VARIATION IN A CYCLOPOID COPEPOD* (DEB-8004150); 12 MONTHS $44,956

REVEAL, JAMES L; *SYSTEMATIC AND HISTORICAL STUDIES OF FIVE PRE-LINNAEAN PLANT COLLECTIONS FROM COLONIAL MARYLAND* (DEB-8006403); 12 MONTHS $4,976

GILL, DOUGLAS E; *THE REGULATION OF NATURAL METAPOPULATIONS* (DEB-8006866); 12 MONTHS $40,000

GOODE, M; *DIRECTIONALITY OF MICROTUBULE ASSEMBLY AND THE MECHANISM OF MITOSIS* (PCM-8011474); 12 MONTHS $37,745

MASSACHUSETTS

AMHERST COLLEGE

KIDDER, GEORGE W; *TRYPANOSOMID FLAGELLATES* (PCM-7718315 A04); 12 MONTHS $25,000

BROWER, LINCOLN P; *COLLABORATIVE RESEARCH ON BIOLOGICAL CHEMISTRY OF CARDENOLIDES IN MILKWEED PLANTS AND MONARCH BUTTERFLIES* (DEB-8006899); 12 MONTHS $72,230

BOSTON BIOMEDICAL RESEARCH INSTITUTE

SANADI, D RAO, AND FISHER, ROBERT J; *ENERGY-LINKED REACTIONS IN E. COLI* (PCM-7708879 A09); 12 MONTHS $71,000

GERGELY, JOHN; *FUNCTIONAL SIGNIFICANCE OF THE PHOSPHORYLATION OF STRIATED MUSCLE MYOSIN* (PCM-8013985); 12 MONTHS $54,000

BOSTON COLLEGE

POWERS, R DOUGLAS; *EPITHELIAL ION TRANSPORT IN MAMMALIAN ELASTOCYSTS* (PCM-7910502 A01); 12 MONTHS $33,760

BOSTON UNIVERSITY

CALLARD, IAN P; *COMPARATIVE ENDOCRINOLOGY IN NON MAMMALIAN VERTEBRATES* (PCM-7908701 A01); $9,750

CALLARD, IAN P; *COMPARATIVE ENDOCRINOLOGY IN NON MAMMALIAN VERTEBRATES* (PCM-7908701 A02); 12 MONTHS $52,125

LAURSEN, RICHARD A; *STRUCTURE, FUNCTION, AND EVOLUTION OF PROTEINS* (PCM-7904910 A01); 12 MONTHS $45,000

VALIELA, IVAN; *DECOMPOSITION PROCESSES IN SALT MARSH ECOSYSTEMS* (DEB-7905127 A01); 12 MONTHS $221,665

VALIELA, IVAN; *DECOMPOSITION PROCESSES IN SALT MARSH ECOSYSTEMS* (DEB-7905127 A02); $3,714

KALCKAR, HERMAN M; *RECOGNITION PATTERNS IN FUNCTIONAL MEMBRANE PROTEINS* (PCM-7910949); 12 MONTHS $30,000

TEETER, MARTHA M; *CRYSTAL STRUCTURE OF CRAMBIN: A PROTEIN AT ATOMIC RESOLUTION* (PCM-8006930); 12 MONTHS $97,000

COOPER DRIVER, GILLIAN A, AND DOUGLASS, MATTHEW M; *CHEMICAL DEFENSES IN FERNS AGAINST INSECT ATTACK* (DEB-8005501); 24 MONTHS $99,544

KUNZ, THOMAS H; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY* (DEB-8014703); 12 MONTHS $1,977

BOSTON UNIVERSITY SCHOOL OF MEDICINE

TROXLER, ROBERT F; *SYNTHESIS OF BILE PIGMENTS IN PLANTS* (PCM-7901810 A01); 12 MONTHS $49,490

KAMINER, BENJAMIN; *THE REGULATORY ROLES OF CALMODULIN AND PHOSPHODIESTERASE IN THE EGG OF THE SEA URCHIN* (PCM-7904496 A01); 24 MONTHS $71,975

ZOLLER, LAWRENCE C; *MORPHOMETRIC EVALUATION OF CELLULAR AND SUBCELLULAR CONTENT* (PCM-7904101); 12 MONTHS $12,450

ROTHSCHILD, KENNETH J; *MULTILAMELLAR BIOMEMBRANE FILMS* (PCM-8011249); 24 MONTHS $95,000

BRANDEIS UNIVERSITY

GIBBS, MARTIN; *CARBOHYDRATE METABOLISM IN THE AUTOTROPHIC CELLS OF PLANTS AND ALGAE* (PCM-7903157 A04); $11,907

JENCKS, WILLIAM P; *ENERGY TRANSFERRING REACTIONS IN BIOLOGICAL SYSTEMS* (PCM-7709389 A03); 12 MONTHS $45,000

WHITE, KALPANA; *CONTROL OF VISUAL SYSTEM DEVELOPMENT IN DROSOPHILA* (PCM-7909794 A02); 12 MONTHS $99,000

HABER, JAMES E; *CHROMOSOME LOSS AND RECOMBINATION IN YEAST* (PCM-7910479 A02); 12 MONTHS $40,000

LOWEY, SUSAN; *PHYSICAL-CHEMICAL BASIS FOR THE CONTRACTILE MECHANISM* (PCM-7907710 A01); 12 MONTHS $52,000

KUSTIN, KENNETH; *BIOINORGANIC CHEMISTRY OF VANADIUM IN TUNICATES* (PCM-7916703 A01); 12 MONTHS $35,000

COHEN, CAROLYN; *STRUCTURAL STUDIES OF INVERTEBRATE MUSCLES* (PCM-7904396 A01); 12 MONTHS $70,000

HOLLOCHER, THOMAS C; *METABOLISM AND ENZYMOLOGY OF DENITRIFICATION* (PCM-7913540); 12 MONTHS $39,055

SCHIFF, JEROME A; *THE METABOLISM OF SULFATE* (PCM-7910142); 12 MONTHS $72,000

FULTON, CHANDLER M; *REGULATION OF ACTIN SYNTHESIS DURING CELL DIFFERENTIATION* (PCM-7902205); 24 MONTHS $75,000

CASPAR, DONALD L; *TV DETECTOR FOR STRUCTURAL BIOLOGY* (PCM-7912796); 12 MONTHS $43,000

WANGH, LAWRENCE J; *STEROID AND THYROID HORMONE REGULATION OF FROG LIVER PROTEIN SYNTHESIS* (PCM-7913143); 12 MONTHS $75,000

EPSTEIN, IRVING R; *KINETICS OF PROTEIN-NUCLEIC ACID AND OTHER LARGE LIGAND-LATTICE INTERACTIONS* (PCM-7915275); 12 MONTHS $35,000

ABELES, ROBERT H; *MECHANISM OF ENZYME ACTION* (PCM-8001672); 12 MONTHS $48,000

CHILDREN'S HOSPITAL MEDICAL CENTER

COLTEN, HARVEY R; *REGULATION OF HISTAMINE METABOLISM* (PCM-7909053 A01); 12 MONTHS $55,390

CLARK UNIVERSITY

TSANG, MONICA L; *THIOREDOXIN IN ASSIMILATORY SULFATE REDUCTION* (PCM-7913549 A01); 12 MONTHS $49,973

AHMADJIAN, VERNON; *DEVELOPMENTAL STUDIES OF THE LICHEN SYMBIOSIS* (PCM-7911079); 24 MONTHS $50,000

HARVARD UNIVERSITY-HARVARD MEDICAL SCHOOL

BECKWITH, JONATHAN R; *THE FACTORS DETERMINING THE LOCATION OF MALTOSE TRANSPORT PROTEINS IN E. COLI* (PCM-7911955 A04); $9,506

GOLDSTEIN, RICHARD N; *CAPSID SIZE DIRECTION BY SATELLITE PHAGE P4* (PCM-7704017 A02); $4,000

WILSON, T H; *GALACTOSIDE TRANSPORT IN BACTERIA* (PCM-7908939 A01); 12 MONTHS $47,000

KUSHMERICK, MARTIN J; *REGULATION OF ACTOMYOSIN ATPASE IN FORCE-GENERATING MUSCLE FIBERS* (PCM-7910477 A02); 12 MONTHS $44,391

SOLOMON, ARTHUR K; *RED CELL MEMBRANE PERMEABILITY TO WATER AND OTHER SMALL MOLECULES* (PCM-7910377); 12 MONTHS $45,122

CALLARD, GLORIA V; *CONVERSION OF ANDROGEN TO ESTROGEN IN THE VERTEBRATE BRAIN* (PCM-7908914 A01); 12 MONTHS $54,753

FRAENKEL, DAN G; *BIOCHEMICAL GENETICS OF GLYCOLYSIS IN MICROORGANISMS* (PCM-7910495); 24 MONTHS $155,000

ROBERTS, BRYAN E; *REGULATION OF EXPRESSION OF VACCINIA GENES* (PCM-7911666); 24 MONTHS $90,000

BECKWITH, JONATHAN R; *THE FACTORS DETERMINING THE LOCATION OF MALTOSE TRANSPORT PROTEINS IN E. COLI* (PCM-7909914); 12 MONTHS $61,991

ALBERTINI, DAVID F; *STRUCTURE AND FUNCTION OF COATED VESICLES* (PCM-7907791); 12 MONTHS $45,000

DORF, MARTIN E; *VARIABLE HEAVY CHAIN GENE EXPRESSION IN T LYMPHOCYTES* (PCM-8005373); 24 MONTHS $90,000

EUDERMAN, JOAN V; *ORGANIZATION AND DEVELOPMENTAL EXPRESSION OF THE TUBULIN GENES* (PCM-8013439); 12 MONTHS $40,000

BRIDGES, ROBERT S; *ENDOCRINE AND NEURAL REGULATION OF MATERNAL BEHAVIOR* (BNS-8014670*); 12 MONTHS $31,000

HARVARD UNIVERSITY

SCHULTES, RICHARD E; *ETHNOPHARMACOLOGY AND ETHNOTOXICOLOGY OF THE NORTHWEST AMAZON (DEB-7520107 A02)*; 12 MONTHS $4,201

SCHULTES, RICHARD E; *ETHNOPHARMACOLOGY AND ETHNOTOXICOLOGY OF THE NORTHWEST AMAZON (DEB-7520107 A03)*; 12 MONTHS $3,853

KLECKNER, NANCY; *GENETIC AND PHYSICAL STUDIES OF TRANSLOCATABLE GENETIC ELEMENTS IN BACTERIA (PCM-7683064 A03)*; $5,270

TORREY, JOHN G, AND TJEPKEMA, JOHN; *THE ECOLOGY OF NITROGEN FIXATION IN ACTINOMYCETE-NODULATED ANGIOSPERMS (DEB-7702249 A02*)*; $20,000

GOULD, STEPHEN J; *VARIATION, ECOLOGY, AND EVOLUTION OF CERION (DEB-7714618 A03)*; 12 MONTHS $76,191

COOK, ROBERT E; *DEMOGRAPHIC PATTERNS AND SEEDLING ADAPTATIONS IN VIOLA (DEB-7715467 A01)*; 24 MONTHS $55,209

LIEM, KAREL F, AND FINK, WILLIAM L; *THE CARE AND USE OF THE FISH COLLECTION AT THE MUSEUM OF COMPARATIVE ZOOLOGY (DEB-7723726 A02)*; 12 MONTHS $57,222

WILSON, EDWARD O; *BEHAVIOR AND ORGANIZATION IN INSECT SOCIETIES (DEB-7727515 A02)*; 12 MONTHS $51,037

TRYON, ROLLA M, JR, AND TRYON, ALICE F; *THE TROPICAL AMERICAN FERNS (DEB-7803148 A02)*; 12 MONTHS $35,716

GUIDOTTI, GUIDO; *INTERACTIONS BETWEEN MEMBRANE PROTEINS (PCM-7806364 A02)*; 12 MONTHS $40,000

WANG, JAMES C; *HELICAL AND SUPERHELICAL STRUCTURE OF DNA (PCM-7805897 A01)*; 12 MONTHS $50,000

KNOWLES, JEREMY R; *ENERGETICS OF ENZYME CATALYSIS (PCM-7809652 A02)*; 12 MONTHS $50,000

AUSUBEL, FREDERICK M; *CHARACTERIZATION OF THE RHIZOBIUM CELL SURFACE COMPONENTS INVOLVED IN THE DEVELOPMENT OF RHIZOBIUM-LEGUME SYMBIOSES (PCM-7806934 A02)*; 12 MONTHS $50,000

KAFATOS, FOTIS C; *CELLULAR DIFFERENTIATION AND MULTIGENE FAMILIES (PCM-7809000 A02)*; 12 MONTHS $125,000

LOSICK, RICHARD, AND PERO, JANICE; *NOVEL PHAGE RNA POLYMERASES (PCM-7810156 A02)*; 12 MONTHS $48,800

BOGORAD, LAWRENCE; *DISSECTING THE MAIZE CHLOROPLAST GENOME (PCM-7811196 A02)*; 12 MONTHS $45,000

BOGORAD, LAWRENCE; *METABOLISM OF PYRROLIC COMPOUNDS - PHOTOREGULATORY MECHANISMS IN BILIPROTEIN METABOLISM (PCM-7813231 A01)*; 12 MONTHS $51,740

AUSUBEL, FREDERICK M; *CHARACTERIZATION OF NITROGEN FIXING GENES IN KLEBSIELLA PNEUMONIAE (PCM-7815450 A02)*; 12 MONTHS $65,000

PERO, JANICE; *CONTROL OF PHAGE SP01 TRANSCRIPTION (PCM-7821570 A01)*; 12 MONTHS $65,000

TAYLOR, D LANSING; *MOLECULAR CYTOCHEMISTRY OF CELL MOVEMENTS (PCM-7822499 A01)*; 12 MONTHS $45,775

PTASHNE, MARK; *GENE EXPRESSION (PCM-7822919 A01)*; 12 MONTHS $134,000

TAYLOR, C RICHARD; *ENVIRONMENTAL ENERGETICS: EXERCISE, HEAT AND WATER (PCM-7823319 A01)*; 12 MONTHS $64,429

ELGIN, SARAH C; *STRUCTURE, EVOLUTION, AND GENETICS OF CHROMOSOMAL PROTEINS OF DROSOPHILA (PCM-7823709 A01)*; 12 MONTHS $35,000

STROMINGER, JACK L; *PENICILLIN BINDING PROTEINS OF BACILLI (PCM-7824129 A01)*; 12 MONTHS $49,000

PAPPENHEIMER, ALWIN M; *BIOLOGY OF DIPHTHERIA AND OF THE DIPHTHERIA BACILLUS (PCM-7904914 A01)*; 12 MONTHS $47,000

SHEA, RUTH G, AND KAFATOS, FOTIS C; *CHARACTERIZATION AND ORGANIZATION OF GENE CODING FOR DROSOPHILA CHORION PROTEINS (PCM-7905042 A01)*; 12 MONTHS $39,702

DRESSLER, DAVID; *ISOLATION AND CHARACTERIZATION OF DNA SYNAPTASE (PCM-7912315)*; 12 MONTHS $64,156

WILLIAMS, ERNEST E; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-7912243)*; 24 MONTHS $6,800

SCHULTES, RICHARD E; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-7913647)*; 10 MONTHS $1,375

STROMINGER, JACK L; *EQUIPMENT FOR THE PROTEIN CHEMISTRY LABORATORY (PCM-7918842)*; 12 MONTHS $65,000

BLOCH, KONRAD; *COMPARATIVE ASPECTS OF STEROL METABOLISM IN ANIMALS AND PLANTS (PCM-7919881)*; 12 MONTHS $32,230

MC ELROY, MICHAEL B; *THE NITROGEN CYCLE AND ATMOSPHERIC NITROUS OXIDE (DEB-7900230)*; 24 MONTHS $277,505

KARPLUS, MARTIN; *PROBLEMS IN THEORETICAL CHEMISTRY: ELECTRONIC STRUCTURE AND DYNAMICS OF MOLECULES IN VACUUM AND IN SOLUTION (CHE-7920435*)*; 12 MONTHS $43,000

MITCHELL, RALPH; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-7920909)*; 24 MONTHS $5,800

MCCLURE, W R; *MECHANISM AND FIDELITY OF E. COLI DNA POLYMERASE I (PCM-79...357)*; 12 MONTHS $27,000

HARRISON, STEPHEN C, AND WILEY, DON C; *ASSEMBLY OF VIRUSES AND RELATED SUBCELLULAR STRUCTURES (PCM-7922159)*; 24 MONTHS $125,000

WASSARMAN, PAUL M; *TUMOR VIRUS CHROMATIN: STRUCTURE AND REPLICATION (PCM-7922815)*; 12 MONTHS $50,000

LEVI, HERBERT W; *SYSTEMATIC STUDY OF THE SPIDER FAMILY ARANEIDAE (DEB-7923004)*; 12 MONTHS $16,051

KLECKNER, NANCY; *TRANSLOCATABLE GENETIC ELEMENTS IN BACTERIA (PCM-7923563)*; 12 MONTHS $60,000

RANDO, ROBERT R; *THRESHOLD EFFECTS AND MEMBRANE-MEMBRANE BINDING (PCM-7927214)*; 12 MONTHS $47,000

BLOCH, KONRAD; *STEROL STRUCTURE AND FUNCTION (PCM-8003449)*; 12 MONTHS $38,500

SOLBRIG, OTTO T; *POPULATION BIOLOGY OF SPECIES OF VIOLA (DEB-8003796)*; 24 MONTHS $110,025

LIEM, KAREL F; *PHYSIOLOGICAL MECHANISMS AND ORIGINS OF AIR VENTILATION IN SOME AIR-BREATHING TELEOST FISHES (PCM-8003874)*; 24 MONTHS $61,014

CHERBAS, PETER T; *INSECT HORMONE RECEPTORS (PCM-8003931*)*; 24 MONTHS $82,000

WOOD, CARROLL E; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8006151)*; 24 MONTHS $4,197

BRANTON, DANIEL; *MEMBRANE CYTOSKELETAL INTERACTIONS (PCM-8007669)*; 24 MONTHS $90,000

ASHTON, PETER S; *CURATORIAL SUPPORT FOR THE COLLECTIONS OF THE ARNOLD ARBORETUM (DEB-8010031)*; 24 MONTHS $99,986

WILLIAMS, ERNEST E; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8013463)*; 12 MONTHS $6,003

WILSON, EDWARD O; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8016415)*; 14 MONTHS $4,500

HARVARD UNIVERSITY-HERBARIUM

ROLLINS, REED C; *THE CRUCIFERAE OF NORTH AMERICA (DEB-7808766 A02)*; 12 MONTHS $35,561

SOLBRIG, OTTO T; *SUPPORT OF BOTANICAL SYSTEMATIC COLLECTIONS AT HARVARD UNIVERSITY (DEB-8005591)*; 12 MONTHS $250,000

GOLDSTEIN, RICHARD N; *REGULATION AND CAPSID SIZE DETERMINATION BY SATELLITE PHAGE P4 (PCM-8006276)*; 12 MONTHS $50,000

SOLBRIG, OTTO T; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8006461)*; 14 MONTHS $5,000

INDIVIDUAL AWARD

CARPENTER, FRANK M; *PALAEOZOIC AND MESOZOIC INSECTS (DEB-8004161)*; 12 MONTHS $10,637

INTERNATIONAL SPORES CONFERENCE INC

LOSICK, RICHARD; *EIGHTH INTERNATIONAL SPORES CONFERENCE, OCT 9-12, 1980, WOODS HOLE, MASSACHUSETTS (PCM-8007679*)*; 12 MONTHS $5,000

JOSLIN DIABETES FOUNDATION INC

SMITH, ROBERT J; *PYRROLINE-5-CARBOXYLATE SYNTHASE: ACTIVITY, LOCALIZATION AND REGULATION IN CULTURED CELLS (PCM-8004270)*; 12 MONTHS $35,000

MARINE BIOLOGICAL LABORATORY

WOODWELL, GEORGE M, PETERSON, BRUCE J, STEUDLER, PAUL A, AND BOWLES, FRANCIS P; *DYNAMICS OF SULFUR IN A SALT MARSH ECOSYSTEM (DEB-7803557 A02)*; 12 MONTHS $170,448

WOODWELL, GEORGE M, HOBBIE, JOHN E, PETERSON, BRUCE J, MELILLO, JERRY M, AND SHAVER, GAIUS R; *THE WORLD CARBON BUDGET (DEB-7805327 A01)*; 18 MONTHS $316,903

INOUE, SHINYA; *BIOPHYSICAL ANALYSIS OF CELLULAR DEVELOPMENT (PCM-7922136)*; 12 MONTHS $51,674

MORRIS, JAMES T; *THE EFFECT OF EDAPHIC FACTORS ON THE AMMONIUM UPTAKE KINETICS OF SPARTINA ALTERNIFLORA AND SPARTINA PATENS (DEB-7922560)*; 24 MONTHS $79,643

MELILLO, JERRY M; *RATES OF DECAY AND NITROGEN DYNAMICS OF FOREST LITTER (DEB-7922884)*; 18 MONTHS $106,378

RUDERMAN, JOAN V; *REGULATION OF DIFFERENTIAL GENE EXPRESSION DURING EARLY DEVELOPMENT IN SPISULA (PCM-7923046)*; 12 MONTHS $50,393

SHAVER, GAIUS R, AND MELILLO, JERRY M; *RECOVERY OF NUTRIENTS FROM SENESCING PLANT TISSUES (DEB-8004174)*; 12 MONTHS $86,295

MASSACHUSETTS GENERAL HOSPITAL

HERSCOVICS, ANNETTE A; *DOLICHYL PYROPHOSPHATE OLIGOSACCHARIDES IN GLYCOPROTEIN BIOSYNTHESIS (PCM-7807644 A01)*; 12 MONTHS $29,652

TRELSTAD, ROBERT L, AND SILVER, FREDERICK H; *COLLAGEN FIBRILLOGENESIS-MOLECULAR AND CELLULAR STEPS (PCM-7818903 A01)*; 12 MONTHS $17,000

WARREN, CHRIS D; *THE CHEMISTRY OF 'LIPID INTERMEDIATES' (PCM-7919033 A01)*; 12 MONTHS $30,000

JACOBS, JOHN W; *CALCITONIN: GENE STRUCTURE AND REGULATION (PCM-7922896)*; 24 MONTHS $90,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ALBERTY, ROBERT A; *STRUCTURAL BASIS OF PROTEIN-NUCLEIC ACID INTERACTIONS (PCM-7603990 A05)*; 12 MONTHS $55,000

LURIA, SALVADOR E; *INTERACTIONS OF COLICINS WITH BACTERIA (PCM-7614956 A04)*; 12 MONTHS $60,000

SIGNER, ETHAN R; *GENETICS OF NITROGEN-FIXING MICROORGANISMS (PCM-7719214 A01)*; $12,219

BRUNENGRABER, HENRI; *ALTERNATE PATHWAY OF CHOLESTEROL SYNTHESIS (PCM-7725425 A01)*; 12 MONTHS $32,527

MAGASANIK, BORIS; *REGULATION OF THE METABOLIC PROCESSES OF THE SINGLE CELL (PCM-7808576 A02)*; 12 MONTHS $70,000

BROWN, GENE M; *BIOSYNTHESIS OF B VITAMINS AND RELATED COMPOUNDS (PCM-7812147 A01)*; 12 MONTHS $65,900

KHORANA, H GOBIND; *CHEMICAL AND BIOLOGICAL STUDIES OF MEMBRANES (PCM-7813713 A01)*; 12 MONTHS $100,000

SOLOMON, EDWARD I; *SPECTROSCOPIC AND MAGNETIC STUDIES ON METALLOPROTEIN ACTIVE SITES (PCM-7813714 A01)*; 12 MONTHS $45,000

SHARP, PHILIP A; *GENE REGULATION IN MAMMALIAN CELLS (PCM-7823230 A01)*; 12 MONTHS $56,324

LODISH, HARVEY F; *TRANSCRIPTIONAL AND TRANSLATIONAL CONTROL OF DICTYOSTELIUM DIFFERENTIATION (PCM-7900839 A01)*; 12 MONTHS $149,500

PENMAN, SHELDON; *ACQUISITION OF EQUIPMENT FOR CELL MORPHOLOGY AND CONTROL OF CELL FUNCTION (PCM-7912082)*; 12 MONTHS $90,000

ROBERTS, MARY F; *PHOSPHOLIPID CONFORMATION IN MODEL MEMBRANES (PCM-7912622)*; 12 MONTHS $41,000

PETSKO, GREGORY A; *PROTEIN CRYSTALLOGRAPHY AT SUB-ZERO TEMPERATURES (PCM-7918231 A01)*; 12 MONTHS $45,000

WALSH, C T; *MEMBRANE-ASSOCIATED OXIDATIVE ENZYMES: PURIFICATION AND DESIGN OF SPECIFIC INACTIVATORS (PCM-7922610)*; 12 MONTHS $35,000

HOLT, CHARLES E; *GENETICS OF DIFFERENTIATION IN PHYSARUM POLYCEPHALUM (PCM-7923507*)*; 24 MONTHS $125,000

PENMAN, SHELDON; *CONFORMATION-DEPENDENT REGULATION AND INTERNAL ARCHITECTURE IN A TRANSFORMED CELL SERIES (PCM-8004696)*; 24 MONTHS $80,000

ORME JOHNSON, W H; *COMPONENTS AND PATHWAYS OF BIOLOGICAL NITROGEN FIXATION (PCM-8008733)*; 12 MONTHS $79,966

ROBBINS, PHILLIPS W; *CELL CULTURE CENTER (PCM-8012314)*; 12 MONTHS $270,000

BENEDEK, GEORGE B, AND COHEN, RICHARD J; *STUDY OF THE NPARTICLE DISTRIBUTIONS FOR MACROMOLECULAR AGGREGATES (PCM-8013659)*; 12 MONTHS $57,000

NORTHEASTERN UNIVERSITY

STRAUSS, PHYLLIS R; *THYMIDINE TRANSPORT IN MURINE LYMPHOCYTES (PCM-7725434 A03)*; 12 MONTHS $34,000

SIDNEY FARBER CANCER INSTITUTE INC

SHAPIRO, HOWARD M; *FLOW CYTOMETRIC PROBES OF EARLY EVENTS IN CELL ACTIVATION (PCM-7923472)*; 24 MONTHS $150,000

SMITH COLLEGE

GEIGER, JON R; *THE MECHANISMS OF CONTROL OF SPONTANEOUS MUTATION (PCM-8003469)*; 12 MONTHS $20,000

TUFTS UNIVERSITY-SCHOOL OF MEDICINE

STOLLAR, B DAVID; *IMMUNOCHEMICAL STUDIES OF NUCLEIC ACIDS, HISTONES AND CHROMATIN (PCM-7904057 A01)*; 12 MONTHS $50,000

OFNER, PETER; *CHARACTERIZATION OF PROSTATIC HYDROXYLATIONS OF 5A-ANDROSTANE-3B,17B-DIOL (PCM-7904073)*; 12 MONTHS $51,400

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

JACOBSON, ALLAN S; *MESSENGER RNA METABOLISM DURING DEVELOPMENT OF DICTYOSTELIUM (PCM-7724192 A02)*; $5,000

MCGUIRE, ROBERT F; *MEMBRANE AND CYTOSKELETON (PCM-7819053 A01)*; 12 MONTHS $43,000

SINGER, JOSHUA J, AND WALSH, JOHN V; *PROPERTIES OF FRESHLY ISOLATED SINGLE SMOOTH MUSCLE CELLS (PCM-7904938 A01)*; 12 MONTHS $41,813

MACWILLIAMS, HARRY K; *SPATIAL REGULATION OF CELL DIFFERENTIATION IN DICTYOSTELIUM (PCM-8003639)*; 24 MONTHS $100,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

REINER, ALBEY M; *EVOLUTION AND DUPLICATION OF E. COLI PENTITOL GENES (PCM-7811161 A01)*; 12 MONTHS $48,679

ZIMMERMANN, ROBERT A; *STRUCTURE OF PROTEIN BINDING SITES IN RIBOSOMAL RNA (PCM-7816027 A02)*; 12 MONTHS $35,000

GODFREY, PAUL J; *SPARTINA PATENS AND ITS ROLE IN THE ECOLOGY OF BARRIER ISLANDS (DEB-7823285 A01)*; $2,750

KUNKEL, JOSEPH G, AND NORDIN, JOHN H; *THE ROLE OF OLIGOSACCHARIDE STRUCTURE IN VITELLOGENESIS (PCM-7903653 A01)*; $10,500

WALKER, JAMES W; *POLLEN MORPHOLOGY AND SYSTEMATICS OF FOUR RANALEAN PLANT FAMILIES (DEB-7904213 A01)*; 12 MONTHS $27,042

NORDIN, JOHN H; *STRUCTURE AND BIOSYNTHESIS OF FUNGAL CELL WALL POLYSACCHARIDES (PCM-7910970 A01)*; 12 MONTHS $35,000

FULLER, R C; *THE ASSEMBLY OF A UNIQUE PHOTOCHEMICAL ENERGY TRANDUCING SYSTEM (PCM-7915226)*; 12 MONTHS $47,000

MULCAHY, DAVID L; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-7921485)*; 10 MONTHS $4,500

THORNE, CURTIS B; *CHROMOSOMAL MAPPING AND PHAGE CONVERSION IN BACILLUS THURINGIENSIS (PCM-7921851*)*; 24 MONTHS $20,000

DAVIS, EDWARD L; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-7921962)*; 24 MONTHS $5,020

BURGGREN, WARREN W; *ONTOGENY OF AERIAL GAS EXCHANGE IN BIMODAL BREATHERS (PCM-8003752)*; 12 MONTHS $37,000

WALKER, JAMES W; *POLLEN MORPHOLOGY AND SYSTEMATICS OF PRIMITIVE MONOCOTYLEDONS (DEB-8010893)*; 36 MONTHS $88,914

YIN, CHIH-MING; *THE ROLE OF PROTHORACICOTROPIC HORMONE AND ECDYSONE IN THE LARVAL DIAPAUSE OF SOUTHWESTERN CORN BORER, DIATRAEA GRANDIOSELLA (PCM-8010948)*; 24 MONTHS $71,999

UNIVERSITY OF MASSACHUSETTS, BOSTON

BAWA, KAMALJIT S; *BREEDING SYSTEMS OF TREE SPECIES OF A TROPICAL LOWLAND RAIN FOREST (DEB-7725558 A02)*; 12 MONTHS $43,916

VANWILLIGEN, HANS; *PURCHASE OF EQUIPMENT FOR ELECTRON NUCLEAR DOUBLE AND TRIPLE RESONANCE STUDIES OF PARAMAGNETIC SYSTEMS IN SOLIDS (PCM-7903440)*; 12 MONTHS $9,350

WELLESLEY COLLEGE

ALLEN, MARY M; *THE METABOLISM OF NITROGEN STORAGE PROTEINS IN NON-NITROGEN FIXING CYANOBACTERIA (PCM-8004529)*; 12 MONTHS $29,998

HARRIS, GARY C; *PHOTOSYNTHETIC CARBON METABOLISM AND LEAF TISSUE INTERACTION IN THE BROAD-LEAVED CATTAIL TYPHA LATIFOLIA (PCM-8004714)*; 12 MONTHS $14,474

WOODS HOLE OCEANOGRAPHIC INSTITUTION

TEAL, JOHN M; *PRODUCTION AND SPECIES DISTRIBUTION IN FERTILIZED AND CONTROL SALT MARSH PLANTS (DEB-8012437)*; 12 MONTHS $14,231

WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY

LEAVITT, WENDELL W; *REGULATION OF PROGESTERONE RECEPTOR SYSTEMS (PCM-7725630 A02)*; 12 MONTHS $55,602

GREENBERG, JAY R; *MESSENGER RIBONUCLEOFROTEINS (PCM-7911003)*; 12 MONTHS $44,000

HALL, PETER F; *SPERMATID METABOLISM: INFLUENCE OF TEMPERATURE (PCM-8015511*)*; 12 MONTHS $95,541

WORCESTER POLYTECHNIC INSTITUTE

GILES, KENNETH L; *DEVELOPMENT OF AN IN VITRO TI PLASMID-MEDIATED HIGH FREQUENCY TRANSFORMATION SYSTEM FOR HIGHER PLANT PROTOPLASTS (PCM-8003807)*; 24 MONTHS $100,000

MICHIGAN

HENRY FORD HOSPITAL

SHORE, JOSEPH D; *MECHANISM OF ACTION OF DEHYDROGENASES (PCM-7826199 A01)*; 12 MONTHS $25,000

HOPE COLLEGE

BLACKWELL, MEREDITH; *BIOSYSTEMATIC STUDIES OF SONORAN DESERT MYXOMYCETES (DEB-8008077)*; 24 MONTHS $30,394

MICHIGAN CANCER FOUNDATION

CHLADEK, STANISLAV; *AFFINITY LABELING OF MACROMOLECULES (PCM-7719948 A01)*; 24 MONTHS $70,000

MICHIGAN STATE UNIVERSITY

DELMER, DEBORAH P; *GLYCOSYLATION AND SECRETION OF PLANT PROTEINS (PCM-7724584 A02)*; 12 MONTHS $26,177

KLUG, MICHAEL J, AND TIEDJE, JAMES M; *CARBON CYCLING AS CONTROLLED BY ELECTRON ACCEPTOR AVAILABILITY IN ANAEROBIC ECOSYSTEMS (DEB-7635821 A02)*; 12 MONTHS $109,453

WOOD, W A, AND TULINSKY, ALEXANDER; *HIGH RESOLUTION STRUCTURE DETERMINATION OF A TRIMERIC ALDOLASE FROM PSUEDOMONAS (PCM-7807388 A02)*; 12 MONTHS $70,000

MERRITT, RICHARD W; *THE ROLE OF MICROINVERTEBRATE FAUNA IN LEAF PROCESSING AND DEGRADATION (DEB-7811145 A02)*; 12 MONTHS $57,188

DAZZO, FRANK B; *BIOCHEMISTRY OF LECTIN RECEPTORS (PCM-7822922 A01)*; $2,000

WERNER, EARL E, AND HALL, DONALD J; *SIZE-CLASS INTERACTIONS AND NICHE STRUCTURE IN FISH COMMUNITIES (DEB-7824271 A01)*; 12 MONTHS $73,989

BANDURSKI, ROBERT S; *METABOLISM OF MICROORGANISMS AND HIGHER PLANTS (PCM-7904637)*; 12 MONTHS $96,632

DIEHN, BODO; *THE BIOCHEMISTRY OF PHOTO AND CHEMORESPONSES IN EUGLENA (PCM-7905320)*; 18 MONTHS $30,000

OZAKI, HIRONOBU; *SEA URCHIN YOLK PROTEINS IN DEVELOPMENT (PCM-7911470 A01)*; 24 MONTHS $70,000

AUST, STEVEN D; *LIPID PEROXIDATION (PCM-7915228)*; 12 MONTHS $35,384

UFFEN, ROBERT L; *DIVERSITY AMONG AQUATIC MICROORGANISMS IN ANAEROBIC ENVIRONMENTS (PCM-7918135)*; 12 MONTHS $54,740

WERNER, PATRICIA A; *PLANT LIFE HISTORY TRADEOFFS IN THE REGENERATIVE STAGES (DEB-7923945)*; 12 MONTHS $55,000

WETZEL, ROBERT G, AND MOELLER, ROBERT G; *TURNOVER OF PHOSPHORUS AND BENTHIC PRODUCTIVITY OF HARDWATER LAKES (DEB-8001190)*; 24 MONTHS $81,755

SNYDER, LOREN R; *SHUTOFF OF HOST GENES BY BACTERIOPHAGE T4 (PCM-8003877)*; 12 MONTHS $60,796

WILSON, DAVID S; *EVOLUTION OF COMMUNITIES IN STRUCTURED DEMES (DEB-8004164)*; 24 MONTHS $87,513

KEPHART, SUSAN R; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8010849)*; 12 MONTHS $4,671

WANG, JOHN L; *LECTIN RECEPTORS AND CYTOSKELETAL PROTEINS IN [illegible]S OF LEGUMINOUS PLANTS (PCM-8011736)*; 12 MONTHS $36,271

BREZNAK, JOHN A; *BIOCHEMICAL BASES FOR SYMBIOSIS BETWEEN INTESTINAL ORGANISMS AND THEIR HOST (PCM-8012026)*; 12 MONTHS $42,011

WETZEL, ROBERT G, AND FRANCKO, DAVID A; *THE ROLE OF CYCLIC ADENOSINE 3'5'-MONOPHOSPHATE IN NATURAL AQUATIC COMMUNITIES (DEB-8012164)*; 18 MONTHS $34,994

TIEDJE, JAMES M; *DENITRIFICATION IN NATURAL ECOSYSTEMS (DEB-8012168)*; 12 MONTHS $153,731

UNIVERSITY OF MICHIGAN-MEDICAL SCHOOL

COON, MINOR J; *DETOXIFICATION OF HYDROCARBONS, DRUGS, AND RELATED COMPOUNDS* (PCM-7614947 A03); 12 MONTHS $87,400

MALVIN, RICHARD L; *CONTROL OF RENAL HORMONES* (PCM-7716465 A02); 12 MONTHS $21,299

LEVINE, MYRON; *HERPESVIRUS CELL SURFACE ANTIGENS AND TUMORIGENICITY* (PCM-7805860 A02); 12 MONTHS $120,000

GELEHRTER, THOMAS D; *REGULATION OF INSULIN AND INSULIN-LIKE GROWTH PEPTIDE ACTION IN HEPATOMA CELLS* (PCM-7807438 A02); 12 MONTHS $49,600

LEVINE, MYRON; *GENETICS AND LATENCY WITH HERPESVIRUS* (PCM-7807711 A02); 12 MONTHS $56,000

UNIVERSITY OF MICHIGAN

GREENBERG, G R; *ROLE OF DEOXYRIBONUCLEOTIDE SYNTHESIS COMPLEX IN FIDELITY OF DNA REPLICATION* (PCM-7720291 A02); 12 MONTHS $40,000

DAWSON, WILLIAM R; *ADAPTATION TO CLIMATE IN BIRDS* (DEB-7725487 A02); 12 MONTHS $28,404

MYERS, PHILIP; *SUPPORT FOR COLLECTIONS OF THE MAMMAL DIVISION* (DEB-7725785 A02); 12 MONTHS $15,907

GATES, DAVID M, AND YOCUM, CONRAD S; *QUANTITATIVE APPROACHES TO PHOTOSYNTHETIC ADAPTATION* (DEB-7802701 A02); 12 MONTHS $50,000

BORER, KATARINA T; *ACCELERATION OF GROWTH BY EXERCISE* (PCM-7807626 A02); 12 MONTHS $34,799

YOCUM, CHARLES F; *CYCLIC PHOTOPHOSPHORYLATION REACTIONS* (PCM-7807909 A01); 12 MONTHS $35,998

BECK, CHARLES B; *MIDDLE DEVONIAN PLANTS FROM THE WINDOM AND MILLBORO SHALES* (DEB-7811165 A02); 12 MONTHS $31,718

KLEINSMITH, LEWIS J; *HORMONAL CONTROL OF ACTIN FORMATION IN THE OVARY* (PCM-7815300 A01); 12 MONTHS $58,899

NEIDHARDT, FREDERICK C; *IDENTIFICATION AND MAPPING OF ESCHERICHIA COLI PROTEINS* (PCM-7822131 A01); 12 MONTHS $110,000

MARTIN, MICHAEL M; *BIOCHEMICAL IMPLICATIONS OF INSECT MYCOPHAGY* (PCM-7822733 A01); 12 MONTHS $50,300

SMOUSE, PETER E; *POPULATION GENETICS OF TROPICAL AMERINDIANS* (DEB-7823293 A01); 12 MONTHS $70,000

JONES, GEORGE H; *PROTEIN SYNTHESIS IN REGENERATING SKELETAL MUSCLE* (PCM-7904260 A01); 12 MONTHS $35,946

CONGDON, JUSTIN D; *LIFE HISTORY CHARACTERISTICS OF REPTILES* (DEB-7906031 A01); 12 MONTHS $24,333

SMOUSE, PETER E; *STUDIES OF ECOLOGICAL SELECTION IN HAPLOID POPULATIONS* (DEB-7910490); 12 MONTHS $33,000

MCCULLOUGH, DALE R; *DEER POPULATION--VEGETATION INTERACTIONS ON THE GEORGE RESERVE* (DEB-7911534); 12 MONTHS $29,391

WAGNER, WARREN H; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY* (DEB-7918704); 12 MONTHS $4,883

SHAFFER, ROBERT L; *CURATION AT THE UNIVERSITY OF MICHIGAN HERBARIUM* (DEB-7919371); 12 MONTHS $137,780

VANDERMEER, JOHN H; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY* (DEB-7920292); 11 MONTHS $6,445

PHILLIES, GEORGE D; *DIFFUSION OF MACROMOLECULES UNDER NON-CLASSICAL CONDITIONS* (CHE-7920389*); 12 MONTHS $15,500

ANDERSON, WILLIAM R; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY* (DEB-7920693); 16 MONTHS $5,573

GRANT, PETER R; *ECOLOGY AND BEHAVIOR OF GEOSPIZA ON THE GALAPAGOS ISLANDS* (DEB-7921119); 12 MONTHS $77,687

KRIMM, SAMUEL; *SPECTROSCOPY OF BIOLOGICAL MACROMOLECULES* (PCM-7921652); 12 MONTHS $50,000

KLUGE, ARNOLD G; *INTRASPECIFIC INDIVIDUAL VARIATION IN MALE RANA SYLVATICA* (DEB-7922123); 24 MONTHS $50,903

LEHMAN, JOHN T; *NUTRIENT FLUXES IN FRESHWATER PLANKTON COMMUNITIES* (DEB-7922143*); 24 MONTHS $50,006

DONEEN, BYRON A; *SEPARATION OF APICAL AND BASOLATERAL MEMBRANES IN BRANCHIAL CHLORIDE CELLS* (PCM-7922985); 24 MONTHS $47,000

TINKLE, DONALD W; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY* (DEB-7923437); 12 MONTHS $3,115

MILLER, ROBERT R; *SYSTEMATICS OF MEXICAN FRESHWATER FISHES* (DEB-8002017); 36 MONTHS $86,691

JACKSON, ETHEL N, AND JACKSON, DAVID A; *CHROMOSOME STRUCTURE OF BACTERIOPHAGE P22* (PCM-8003889); 12 MONTHS $45,000

MCVAUGH, ROGERS; *VASCULAR FLORA OF JALISCO* (DEB-8004178); 24 MONTHS $58,628

WAGNER, WARREN H, AND WAGNER, FLORENCE S; *EVOLUTION AND SYSTEMATICS OF THE GRAPEFERN GENUS BOTRYCHIUM* (DEB-8005536); 24 MONTHS $49,849

WEBB, PAUL W; *PRINCIPLES OF PREDATION IN TELEOST FISHES* (PCM-8006469); 12 MONTHS $25,500

STRAUSS, RICHARD E, AND SMITH, GERALD R; *PHENETIC, CLADISTIC, AND SHAPE TRANSFORMATION STUDIES OF THE GENUS COTTUS* (DEB-8011562); 24 MONTHS $60,522

EVANS, FRANCIS C; *PATTERNS OF SPECIES DIVERSITY IN AN OLD-FIELD PLANT COMMUNITY* (DEB-8011771); 24 MONTHS $54,207

GATES, DAVID M; *RENOVATION AND CONSTRUCTION OF RESEARCH INVESTIGATOR HOUSING* (DEB-8013016); 12 MONTHS $50,000

WAYNE STATE UNIVERSITY-SCHOOL OF MEDICINE

PALCHAUDHURI, SUNIL; *PLASMID INCOMPATIBILITY AND CONTROL OF DNA REPLICATION* (PCM-7823458 A01); $2,017

NEEDLEMAN, RICHARD; *REGULATION OF MALTASE SYNTHESIS IN YEAST* (PCM-7911780); 24 MONTHS $80,000

WAYNE STATE UNIVERSITY

MOORE, WILLIAM S; *THE POPULATION BIOLOGY OF HYBRIDOGENETIC VERTEBRATES* (DEB-7715352 A03); 12 MONTHS $39,500

HARI, V, AND SIEGEL, ALBERT; *STRATEGIES OF REPLICATION OF RNA PLANT VIRUSES* (PCM-7724018 A02); 12 MONTHS $42,000

LEE, CHUAN-PU; *STRUCTURE FUNCTION OF MITOCHONDRIAL INNER MEMBRANE* (PCM-7808549 A02); 12 MONTHS $40,000

GOODMAN, MORRIS; *BIOMOLECULAR SYSTEMATICS OF PRIMATES AND OTHER EUTHERIA* (DEB-7810717 A01*); 12 MONTHS $37,937

CHAVIN, WALTER; *TEMPERATURE EFFECTS ON THE MECHANISM OF TSH ACTION* (PCM-7909056); 24 MONTHS $80,000

IZAWA, SEIKICHI; *BIOENERGETICS OF PHOTOSYNTHESIS* (PCM-7922576); 12 MONTHS $65,993

BANERJEE, SURATH K; *HEART CONTRACTIVE PROTEINS* (PCM-8016069*); 12 MONTHS $6,800

MINNESOTA

MAYO FOUNDATION

VENEZIALE, CARLO M; *THE RADIOIMMUNOASSAY OF CARBOHYDRATE METABOLIZING ENZYMES* (PCM-7923545); 24 MONTHS $110,002

UNIVERSITY OF MINNESOTA-AGRICULTURAL EXPERIMENT STATION

SAUERBIER, WALTER; *GENETIC AND BIOCHEMICAL ANALYSIS OF MESSENGER INACTIVATION AND BREAKDOWN IN BACTERIA* (PCM-7719570 A02); $7,700

BRENNER, MARK L; *ANALYSIS OF APICAL DOMINANCE IN RELATIONSHIP TO ENDOGENOUS HORMONES AND THEIR TRANSPORT* (PCM-7813255 A01); 12 MONTHS $34,000

PHILLIPS, RONALD L, GENGENBACH, BURLE G, GREEN, CHARLES E, AND RUBENSTEIN, IRWIN; *DEVELOPMENTAL AND MOLECULAR BIOLOGY OF MAIZE* (PCM-7912069 A01); $8,614

SHAPIRO, JOSEPH; *COMPLEX INTERACTIONS BETWEEN DAPHNIA AND APHANIZOMENON* (DEB-7921755*); 12 MONTHS $63,978

GANDER, JOHN E; *BIOCHEMICAL APPLICATIONS OF 13C-NMR SPECTROSCOPY* (PCM-7922802); 12 MONTHS $125,000

UNIVERSITY OF MINNESOTA-MEDICAL SCHOOL

ROSENBERG, ANDREAS; *SYSTEMS APPROACH TO PROTEIN STRUCTURE* (PCM-8003744); 12 MONTHS $50,000

THOMAS, DAVID D; *MOLECULAR DYNAMICS OF MUSCLE CONTRACTION* (PCM-8004612); 12 MONTHS $55,500

SHIER, WAYNE T; *ACTIVATABLE CELLULAR PHOSPHOLIPASE A2* (PCM-8011784); 12 MONTHS $45,000

UNIVERSITY OF MINNESOTA

GOLDSTEIN, STUART F; *BEND BEHAVIOR IN FLAGELLA* (PCM-7715886 A01); 24 MONTHS $55,000

LIVINGSTON, DENNIS M; *CONTROL OF DNA REPLICATION IN THE CELL CYCLE OF YEAST* (PCM-7718705 A02); 12 MONTHS $46,529

HOOPER, ALAN B; *NITRIFICATION IN NITROSOMONAS* (PCM-7807646 A02); $47,704

HOWARD, JAMES B; *STRUCTURE OF FE-S CENTERS IN MOFE- AND FE-PROTEINS OF NITROGENASE* (PCM-7816287 A01); 12 MONTHS $36,000

WOOD, JOHN M; *MICROBIAL DEGRADATION AND METABOLIC CYCLES* (PCM-7820461 A01); 12 MONTHS $70,000

SCHMIDT, EDWIN L; *IMMUNOFLUORESCENCE STUDY OF THE ECOLOGY OF MICROORGANISMS IN NATURAL ENVIRONMENTS* (DEB-7827046 A01); 12 MONTHS $27,615

MORROW, PATRICE A; *EFFECTS OF PLANT NUTRIENT STATUS ON INSECT DAMAGE TO EUCALYPTUS* (DEB-7904953 A01); 12 MONTHS $24,813

DAVIS, MARGARET B; *RANGE EXTENSIONS OF FOREST TREES FOLLOWING PLEISTOCENE GLACIATION* (DEB-7909801 A01); 12 MONTHS $73,764

GORHAM, EVILLE; *DOCTORAL DISSERTATION RESEARCH IN ECOSYSTEM STUDIES* (DEB-7915306); 24 MONTHS $8,603

GORHAM, EVILLE; *THE ECOLOGY AND BIOGEOCHEMISTRY OF SPHAGNUM BOGS IN NORTH AMERICA* (DEB-7922142); 12 MONTHS $195,050

LETOURNEAU, PAUL C; *MORPHOGENETIC CELL BEHAVIOR DURING NEURODEVELOPMENT* (PCM-7923907 A01); 24 MONTHS $75,000

WRIGHT, HERBERT E; *STUDIES IN QUATERNARY PALEOLIMNOLOGY* (DEB-8004286); 12 MONTHS $69,577

RUBENSTEIN, IRWIN, GENGENBACH, BURLE G, GREEN, CHARLES E, AND PHILLIPS, RONALD L; *SYMPOSIUM ON THE BIOLOGICAL RESPONSE OF HIGHER PLANTS TO ENVIRONMENTAL STRESS; MARCH 26-28, 1980; ST. PAUL, MINNESOTA* (PCM-8004734*); 12 MONTHS $3,200

MUNCK, ECKARD; *MOSSBAUER SPECTROSCOPY ON NITROGENASE COMPONENTS* (PCM-8005610); 12 MONTHS $75,000

HOOPER, ALAN B; *BIOCHEMISTRY OF NITRIFICATION IN NITROSOMONAS: HYDROXYLAMINE OXIDOREDUCTASE* (PCM-8008710); 12 MONTHS $62,000

BROOKS, MARION A; *NEOPLASTIC INSECT CELLS IN VITRO* (PCM-8012013); 12 MONTHS $38,000

UNIVERSITY OF MINNESOTA AT DULUTH

ANDERSON, PAUL M; *PROPERTIES AND FUNCTION OF CARBAMYL PHOSPHATE SYNTHETASE III IN FISH* (PCM-7824130); 24 MONTHS $79,048

HALLER, EDWIN W; *HORMONAL REGULATION OF METABOLISM IN GENETIC OBESITY* (PCM-8003740); 12 MONTHS $50,000

DOWNING, STEPHEN W; *HAGFISH EPIDERMIS: A MODEL SYSTEM FOR THE STUDY OF MUCUS AND SECRETORY CELLS* (PCM-8011775); 12 MONTHS $55,000

UNIVERSITY OF MINNESOTA AT SAINT PAUL

LAKOWICZ, JOSEPH R; *SEGMENTAL MOBILITY OF BIOPOLYMERS* (PCM-7816706 A01); 12 MONTHS $30,000

NELSESTUEN, GARY L; *ALTERNATIVES TO PROTEINS AND NUCLEIC ACIDS* (PCM-8002362); 12 MONTHS $35,000

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI

EFTINK, MAURICE R; *LIGAND INDUCED CHANGES IN THE PROPERTIES OF PROTEINS* (PCM-7923031); 24 MONTHS $60,000

UNIVERSITY OF MISSISSIPPI-UNIVERSITY OF MISSISSIPPI MEDICAL CENTER

OLSEN, KENNETH W, CASE, STEVEN T, HUNT, RICHARD C, PAO, CHIA C, AND WAHBA, ALBERT J; *PURCHASE OF RESEARCH EQUIPMENT* (PCM-7904410); 12 MONTHS $40,000

CLEM, L WILLIAM; *IMMUNOLOGIC STUDIES WITH ECTOTHERMIC VERTEBRATES* (PCM-7904954 A01); 12 MONTHS $50,000

MISSOURI

KIRKSVILLE COLLEGE OF OSTEOPATHIC MEDICINE

ISAAK, DALE D; *MURINE LEUKEMIA VIRUS - TARGET CELL INTERACTIONS* (PCM-7922943); 12 MONTHS $39,900

MISSOURI BOTANICAL GARDEN

DAVIDSE, GERRIT; *SUPPORT FOR THE ANNUAL SYSTEMATICS SYMPOSIUM, ST. LOUIS, MISSOURI, OCTOBER, 1980, 1981, 1982* (DEB-7810180 A02); 36 MONTHS $29,527

GOLDBLATT, PETER; *SYSTEMATIC AND EVOLUTIONARY STUDIES IN IRIDACEAE* (DEB-7810655 A01); 12 MONTHS $24,881

RAVEN, PETER H; *SYSTEMATIC AND EVOLUTIONARY STUDIES IN THE PLANT FAMILY ONAGRACEAE* (DEB-7823400 A02); 12 MONTHS $52,782

RAVEN, PETER H; *SYSTEMATIC AND EVOLUTIONARY STUDIES IN THE PLANT FAMILY ONAGRACEAE* (DEB-7823400 A03); $8,918

CROSBY, MARSHALL R; *REVISION OF THE GENERA OF THE MOSS FAMILY BRYACEAE* (DEB-7905844); 24 MONTHS $65,479

GOLDBLATT, PETER, AND DAVIDSE, GERRIT; *ACQUISITION OF A MULTI-USER RESEARCH MICROSCOPE* (DEB-7921759); 12 MONTHS $34,052

D'ARCY, WILLIAM G; *SUSTAINED PLANT SAMPLING AND PHYTOGEOGRAPHY IN PANAMA* (DEB-7922192*); 12 MONTHS $52,430

CROSBY, MARSHALL R; *SUPPORT FOR SYSTEMATICS RESEARCH COLLECTIONS AT THE MISSOURI BOTANICAL GARDEN* (DEB-8005563); 12 MONTHS $170,000

GENTRY, ALWYN H; *FLORISTICS AND PHYTOGEOGRAPHICAL PATTERNS IN AMAZONIAN PERU* (DEB-8006253); 24 MONTHS $50,160

CROAT, THOMAS B; *A REVISION OF ANTHURIUM SECTION PACHYNEURIUM (ARACEAE)* (DEB-8011649); 12 MONTHS $54,779

ST LOUIS UNIVERSITY-SCHOOL OF MEDICINE

COSCIA, CARMINE J; *ALKALOID BIOSYNTHESIS IN HIGHER PLANTS* (PCM-7714028 A02); 12 MONTHS $43,300

BARISAS, B GEORGE; *LATERAL DYNAMICS OF MEMBRANE COMPONENTS* (PCM-7813708 A02); 12 MONTHS $30,000

MARRS, BARRY L; *ENERGY TRANSDUCING BACTERIAL MEMBRANES* (PCM-7827034 A01); 12 MONTHS $46,856

UNIVERSITY OF MISSOURI, COLUMBIA-SCHOOL OF MEDICINE

ZATZMAN, MARVIN L; *CARDIOVASCULAR AND RENAL CONTROL IN HIBERNANTS* (PCM-7912222); 12 MONTHS $63,000

ZATZMAN, MARVIN L; *CARDIOVASCULAR AND RENAL CONTROL IN HIBERNANTS* (PCM-7912222 A01); $1,000

UNIVERSITY OF MISSOURI, COLUMBIA

MILES, DONALD R; *NUCLEAR GENES FOR PHOTOSYNTHESIS PROTEINS IN CORN* (PCM-7922782); 24 MONTHS $90,000

YONKE, THOMAS R; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY* (DEB-7923810); 24 MONTHS $2,820

WYCHE, JAMES H; *GROWTH CONTROL OF CULTURED RAT OVARIAN CELLS* (PCM-7925681*); 12 MONTHS $48,437

NEUFFER, M G; *GENETIC AND EMBRYO CULTURE STUDIES OF DEFECTIVE MAIZE KERNEL MUTANTS* (PCM-8005709*); 12 MONTHS $35,000

POLACCO, JOSEPH C; *PHYSIOLOGY AND MOLECULAR GENETICS OF THE UREOLYTIC ENZYMES OF SOYBEAN* (PCM-8010934); 12 MONTHS $59,574

UNIVERSITY OF MISSOURI, KANSAS CITY

HANCOCK, ANTHONY J; *ROLE OF CONFORMATION IN THE UPTAKE AND METABOLISM OF CYCLIC LIPID ANALOGS IN NORMAL AND TRANSFORMED CELLS* (PCM-7815110 A01); 12 MONTHS $31,700

UNIVERSITY OF MISSOURI, ST LOUIS

AVERETT, JOHN E; *CHEMOSYSTEMATIC STUDY OF THE ONAGRACEAE* (DEB-7704815 A01); 24 MONTHS $38,062

GREGORY, ANNE; *RESPONSE OF THE TEMPERATURE RECEPTOR FOR INDUCTION OF FREEZING RESISTANCE* (PCM-8011573); 24 MONTHS $36,746

WASHINGTON UNIVERSITY-SCHOOL OF MEDICINE

GLASER, LUIS; *EMBRYONAL CELL SURFACE RECOGNITION* (PCM-7715972 A02); 12 MONTHS $45,000

FRAZIER, WILLIAM A; *CELL SURFACE REGULATION OF DEVELOPMENT* (PCM-7804303 A02); 12 MONTHS $35,535

MATHEWS, F S; *CRYSTALLOGRAPHIC STUDIES OF B-TYPE CYTOCHROME ELECTRON TRANSPORT SYSTEMS* (PCM-7922708); 12 MONTHS $60,000

KENNELL, DAVID E; *IN VITRO ENZYME SYNTHESIS TO STUDY TRANSLATION INITIATION* (PCM-7922983); 12 MONTHS $21,000

WASHINGTON UNIVERSITY

WALBOT, VIRGINIA; *NUCLEAR GENE CONTROL OF ORGANELLE DEVELOPMENT* (PCM-7806818 A02); 12 MONTHS $33,000

JOHNSON, GEORGE B; *ELECTROPHORETIC VARIATION IN DROSOPHILA MELANOGASTER* (DEB-7815831 A01); 12 MONTHS $48,000

OUTLAW, WILLIAM H; *BIOCHEMISTRY OF GUARD CELLS. REGULATION OF STOMATAL APERTURE* (PCM-7820879 A01); 12 MONTHS $46,500

KOHL, DANIEL H, AND SHEARER, GEORGIA; *NITROGEN ISOTOPE FRACTIONATION AND THE RELATIVE RATES OF NITROGEN TRANSFORMATIONS* (PCM-7823270*); 12 MONTHS $56,000

WALBOT, VIRGINIA; *EVOLUTION OF DNA SEQUENCES IN PLANTS* (DEB-7911535 A01); 12 MONTHS $44,133

BEACHY, ROGER N; *REGULATION OF STORAGE PROTEIN SYNTHESIS DURING THE DEVELOPMENT OF THE SOYBEAN SEED* (PCM-7911763 A01); 12 MONTHS $40,000

COLBURN, THERESE M, AND THACH, ROBERT E; *MESSENGER-RNA DISCRIMINATION IN AN IN VITRO PROTEIN SYNTHESIZING SYSTEM* (PCM-7911936); 12 MONTHS $45,000

BANASZAK, LEONARD J; *STRUCTURE-FUNCTION STUDIES OF DEHYDROGENASES* (PCM-7921864); 12 MONTHS $59,000

CHILTON, MARY-DELL; *PURCHASE OF AN ULTRACENTRIFUGE FOR STUDIES OF THE MOLECULAR BASIS OF CROWN GALL TUMORIGENESIS* (PCM-7922897); 12 MONTHS $17,000

SCHAAL, BARBARA A; *STUDIES IN THE GENUS LUPINUS* (DEB-8010335); 12 MONTHS $27,145

MONTANA

UNIVERSITY OF MONTANA

ALLENDORF, FRED W; *EVOLUTION OF DIFFERENTIAL EXPRESSION OF DUPLICATE LOCI IN SALMONID FISHES* (DEB-8004681); 24 MONTHS $60,000

JUDAY, RICHARD E; *THE EFFECT OF ASH FALLOUT ON WATER QUALITY IN WESTERN MONTANA* (DEB-8020857); 15 MONTHS $9,724

NEBRASKA

CREIGHTON UNIVERSITY-SCHOOL OF MEDICINE

MAGEE, DONALD F; *PANCREATIC DIVERSION HYPERSECRETION* (PCM-8003446); 24 MONTHS $86,000

UNIVERSITY OF NEBRASKA AT LINCOLN

BALLINGER, ROYCE E; *CONTROL OF REPRODUCTIVE MATURITY IN LIZARDS* (DEB-7724477 A01); 3 MONTHS $7,328

SCHUSTER, SHELDON M; *STRUCTURE AND CONTROL OF HEART ATP SYNTHETASE* (PCM-7812134 A01); 12 MONTHS $30,900

KNOCHE, HERMAN W; *CHEMICAL NATURE OF HOST-SPECIFIC PATHOTOXINS PRODUCED BY PLANT PATHOGENS* (PCM-7920685); 12 MONTHS $38,000

KAUL, ROBERT B; *REPRODUCTIVE STRUCTURE OF THE OAK FAMILY (FAGACEAE) IN THE FAR EAST* (DEB-7921641); 24 MONTHS $52,542

GALBRAITH, DAVID W; *FLUORESCENCE-ACTIVATED CELL SORTER* (PCM-8003646); 12 MONTHS $63,430

PARKHURST, LAWRENCE J; *NEW HYBRID HEMOGLOBINS: FUNCTIONAL ASPECTS OF SUBUNIT INTERACTIONS* (PCM-8003655); 12 MONTHS $58,000

UNIVERSITY OF NEBRASKA MEDICAL CENTER AT OMAHA

RAMALEY, JUDITH A; *PHYSIOLOGY OF THE PREPUBERTAL PERIOD IN THE RAT* (PCM-7903252); 12 MONTHS $55,200

NEVADA

UNIVERSITY OF NEVADA, RENO

HARRINGTON, RODNEY E; *OPTICAL AND HYDRODYNAMIC STUDIES UPON CHROMATIN* (PCM-7905609 A01); 12 MONTHS $45,000

WINICOV, ILGA B; *HETEROGENEOUS NUCLEAR RNA PROCESSING* (PCM-7922207); 12 MONTHS $45,000

NEW HAMPSHIRE

DARTMOUTH COLLEGE

HOLMES, RICHARD T, AND SCHULTZ, JOHN C; *QUANTITATIVE STUDIES OF ANIMALS IN A NORTHERN HARDWOODS ECOSYSTEM* (DEB-7682905 A03); 3 MONTHS $13,033

GILBERT, JOHN J, AND STARKWEATHER, PETER L; *TROPHIC ECOLOGY AND FEEDING BEHAVIOR OF PLANKTONIC ROTIFERS AND THEIR COPEPOD PREDATORS* (DEB-7802882 A02); $7,513

GILBERT, JOHN J, AND STARKWEATHER, PETER L; *TROPHIC ECOLOGY AND FEEDING BEHAVIOR OF PLANKTONIC ROTIFERS AND THEIR COPEPOD PREDATORS* (DEB-7802882 A03); 12 MONTHS $65,998

SPIEGEL, EVELYN S, AND SPIEGEL, MELVIN; *ALTERNATIVE PATHWAYS OF DEVELOPMENT IN REAGGREGATION SEA URCHIN EMBRYOS* (PCM-7923241 A01); 12 MONTHS $50,000

REINERS, WILLIAM A; *BIOGEOCHEMICAL PROCESSES IN MOUNTAIN FORESTS OF NEW ENGLAND (DEB-7907346 A01)*; 12 MONTHS $97,489

SLOBODA, ROGER D; *FLUORESCENCE DETECTION BY IMAGE INTENSIFICATION (PCM-7921102)*; 12 MONTHS $25,000

JACKSON, WILLIAM T; *HAEMANTHUS SPINDLE STRUCTURE AND FUNCTION (PCM-8002357)*; 12 MONTHS $45,000

KERFOOT, W CHARLES; *ZOOPLANKTON AND BIOLOGICAL CONTROL (DEB-8004654)*; 24 MONTHS $120,607

DARTMOUTH COLLEGE-DARTMOUTH MEDICAL SCHOOL

MCCANN, FRANCES V; *ELECTROPHYSIOLOGY OF INVERTEBRATE HEART CELLS (PCM-7725735 A02)*; 12 MONTHS $40,000

SCHNEIDER, DONALD L; *ACTIVE TRANSPORT ACROSS THE LYSOSOMAL MEMBRANE (PCM-7904980)*; 24 MONTHS $73,653

JACOBS, NICHOLAS J; *MECHANISM AND REGULATION OF MICROBIAL PROTOPORPHYRINOGEN OXIDATION (PCM-7919520)*; 12 MONTHS $28,547

TRUMPOWER, BERNARD L; *CONFERENCE ON FUNCTION OF QUINONES IN ENERGY CONSERVING SYSTEMS (OCTOBER 26 - OCTOBER 29, 1980; HANOVER, NEW HAMPSHIRE)(PCM-8003785)*; 12 MONTHS $3,000

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

BLAKEMORE, RICHARD P; *MAGNETISM IN BACTERIA (PCM-7922224)*; 12 MONTHS $31,000

WALKER, CHARLES W; *MECHANISMS GOVERNING CELLULAR PROLIFERATION AND MEIOSIS DURING SPERMATOGENESIS (PCM-8003670)*; 24 MONTHS $69,862

HERBST, EDWARD J; *BIOCHEMICAL CHARACTERIZATION OF ORNITHINE DECARBOXYLASE ANTIZYME (PCM-8004595)*; 24 MONTHS $50 000

NEW JERSEY

COLLEGE OF MEDICINE & DENTISTRY OF NEW JERSEY

ROTHSTEIN, RODNEY J; *MECHANISMS OF GENOMIC REARRANGEMENTS IN YEAST (PCM-8003805)*; 12 MONTHS $62,000

COLLEGE OF MEDICINE & DENTISTRY OF NEW JERSEY-RUTGERS MEDICAL SCHOOL

SANDERS, MARILYN M; *NUCLEOSOME HETEROGENEITY AND HIGHER ORDER CHROMATIN STRUCTURE (PCM-7922166)*; 24 MONTHS $60,000

FAIRLEIGH DICKINSON UNIVERSITY-TEANECK CAMPUS

LESK, ARTHUR M; *THE STRUCTURE, FUNCTION AND EVOLUTION OF PROTEINS: STRUCTURAL AND THERMODYNAMIC ANALYSIS (PCM-8012007)*; 12 MONTHS $25,000

PRINCETON UNIVERSITY

LISK, ROBERT D; *DETERMINATION OF FUNCTION-MORPHOLOGY RELATIONSHIP IN THE BRAIN (PCM-7812582 A02)*; 12 MONTHS $71,000

SHIMOMURA, OSAMU, AND JOHNSON, FRANK H; *BIOCHEMISTRY OF LUMINESCENCE (PCM-7822959 A01*)*; 12 MONTHS $80,000

MILCH, JAMES R; *DYNAMIC X-RAY DIFFRACTION STUDIES OF STRIATED MUSCLE (PCM-7906433 A01)*; 12 MONTHS $57,000

SCHEDL, PAUL; *DNA SEQUENCE ORGANIZATION AND FUNCTION IN D. MELANOGASTER (PCM-7911009*)*; 24 MONTHS $74,868

BAIRD, DONALD; *A DINOSAUR NESTING GROUND: EGGS, JUVENILES AND SOCIAL STRUCTURE (EAR-8007817*)*; 12 MONTHS $15,000

KLOTZ, LYNN C; *DNA AND CHROMOSOMES IN PROKARYOTES AND LOWER EUKARYOTES (PCM-8017146)*; 12 MONTHS $52,000

RIDER COLLEGE

MAYER, THOMAS C; *GENE ACTION AND THE DEVELOPMENT OF PIGMENT PATTERNS IN MICE (PCM-7925693)*; 24 MONTHS $39,593

RUTGERS UNIVERSITY-COOK COLLEGE

CASEY, TIMOTHY M; *COMPARATIVE ENERGETICS AND PHYSIOLOGY OF FLYING INSECTS (PCM-8011158)*; 24 MONTHS $59,992

RUTGERS UNIVERSITY-DOUGLASS COLLEGE

AXELROD, DAVID E; *DIFFERENTIATION AND TUMORIGENICITY OF FRIEND CELLS (PCM-7805462 A01)*; 24 MONTHS $80,000

RUTGERS UNIVERSITY

ST JOHN, ANN C; *DEGRADATION OF INTRACELLULAR PROTEINS IN ESCHERICHIA COLI (PCM-7832935 A01)*; 24 MONTHS $68,000

KEATING, KATHLEEN I; *ANTIBIOSIS IN PREDATOR/PREY RELATIONSHIPS AMONG FRESHWATER PLANKTON (DEB-7823258 A01)*; 24 MONTHS $117,426

NIEDERMAN, ROBERT A; *PURCHASE OF A SPECTROPHOTOMETER (PCM-7903665 A01)*; $9,642

MENDELSOHN, RICHARD; *RAMAN SPECTROSCOPIC STUDIES OF LIPID-PROTEIN INTERACTION (PCM-7907524 A01)*; 12 MONTHS $28,500

VRIJENHOEK, ROBERT C; *ECOLOGICAL-GENETIC STUDIES OF POECILIOPSIS (DEB-7916220 A01)*; 12 MONTHS $39,081

VRIJENHOEK, ROBERT C; *BIOSYSTEMATICS OF POECILIOPSIS (DEB-7922854)*; 24 MONTHS $45,000

TKACZ, JAN S; *HIGH PERFORMANCE LIQUID CHROMATOGRAPHY OF CELLULAR PRODUCTS (PCM-8003478)*; 12 MONTHS $24,980

PICKETT, STEWARD T; *RESPONSE OF HERBACEOUS POPULATIONS TO THE CREATION OF GAPS IN DECIDUOUS FOREST (DEB-8003504)*; 12 MONTHS $33,612

FORMAN, RICHARD T; *COMMUNITY/ECOSYSTEM STABILITY AND LANDSCAPE CONFIGURATION (DEB-8004653)*; 12 MONTHS $46,823

TSAI, MING-DAW; *STEREOCHEMISTRY OF ENZYME REACTIONS INVOLVING A PROPROCHIRAL PHOSPHORUS CENTER (PCM-8021446)*; 7 MONTHS $28,800

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

FLOWER, ROUSSEAU H; *EVOLUTION AND DISTRIBUTION OF EARLY PALEOZOIC NAUTILOIDS (DEB-7728308 A02)*; 12 MONTHS $20,810

NEW MEXICO STATE UNIVERSITY

ZUCKER, NAIDA; *BEHAVIOR AND EVOLUTION OF UCA (DEB-7802475 A01)*; $2,450

BERNSTEIN, MARVIN H; *ACID-BASE CONTROL, RESPIRATION, AND TEMPERATURE REGULATION IN AVIAN HYPERTHERMIA (PCM-7921856)*; 24 MONTHS $42,749

SUBERKROPP, KELLER; *DYNAMICS OF DETRITUS BASED TROPHIC INTERACTIONS IN STREAMS (DEB-7922997)*; 24 MONTHS $86,606

BOTSFORD, JAMES L; *REPRESSION OF ADENYLATE CYCLASE IN E. COLI (PCM-8000270)*; 24 MONTHS $50,000

UNIVERSITY OF NEW MEXICO-SCHOOL OF MEDICINE

LOFTFIELD, ROBERT B; *TEST OF THE HOPFIELD KINETIC PROOF READING THEORY (PCM-7706538 A02)*; 2 MONTHS $5,000

SOLOMON, SIDNEY; *FUNCTIONAL DEVELOPMENT OF THE KIDNEY (PCM-7815383 A02)*; 12 MONTHS $58,400

SOLOMON, SIDNEY; *IPA MOBILITY ASSIGNMENT - DR. SIDNEY SOLOMON (PCM-7819562 A02)*; 2 MONTHS $285

HURWITZ, LEON; *CALCIUM ION CHANNELS IN SMOOTH MUSCLE (PCM-7824206 A01)*; 12 MONTHS $40,800

MCGUFFEE, LINDA J, AND HURWITZ, LEON; *EFFECTS OF DRUGS ON INTRACELLULAR CALCIUM IN SMOOTH MUSCLE (PCM-7911230)*; 24 MONTHS $79,999

VOLD, BARBARA S; *FUNCTION OF MODIFIED NUCLEOSIDES OF TRNA (PCM-7922492)*; 24 MONTHS $80,000

BUSS, WILLIAM C; *STUDIES ON THE MECHANISM OF THE GLUCOCORTICOID INDUCED DECREASE IN THE ACTIVITY OF RAT THYMIC RNA POLYMERASE II (PCM-8003442)*; 12 MONTHS $40,000

WATERMAN, ROBERT E; *NEURAL CREST CELL MIGRATION IN THE TELEOST EMBRYO (PCM-8005905)*; 12 MONTHS $40,000

UNIVERSITY OF NEW MEXICO

LIGON, J D, AND LIGON, SANDRA H; *AN ECOLOGICAL AND EVOLUTIONARY STUDY OF COMMUNALITY IN TWO TROPICAL BIRDS (DEB-7905866 A01)*; 12 MONTHS $24,816

OMDAHL, JOHN L; *HIGH PERFORMANCE LIQUID CHROMATOGRAPH (PCM-7909493)*; 12 MONTHS $32,000

CATES, REX G; *PLANT-HERBIVORE COMMUNITY AND POPULATION DYNAMICS (DEB-7927067)*; 12 MONTHS $50,000

MARTINEZ, ANDREW O; *GENETIC ANALYSIS OF CELL PROLIFERATION (PCM-8003728)*; 24 MONTHS $85,000

YATES, TERRY L; *CHROMOSOMAL AND GENIC VARIABILITY IN THE FAMILY TALPIDAE (DEB-8004685)*; 24 MONTHS $56,500

BACA, OSWALD G; *INTERACTION OF INTRACELLULAR PARASITES WITH MACROPHAGE-LIKE TUMOR CELL LINES (PCM-8010633)*; 12 MONTHS $45,085

GOSZ, JAMES R; *DOCTORAL DISSERTATION RESEARCH IN ECOSYSTEM STUDIES (DEB-8013018)*; 12 MONTHS $5,424

NEW YORK

ADELPHI UNIVERSITY

LUND, RICHARD; *FOSSIL CHONDRICHTHYES FROM THE CARBONIFEROUS OF MONTANA (DEB-7919492*)*; 24 MONTHS $65,000

ALBANY MEDICAL COLLEGE

MAZURKIEWICZ, JOSEPH E, AND KAYE, GORDON I; *EQUIPMENT FOR A SCANNING ELECTRON MICROSCOPE (PCM-7912624)*; 12 MONTHS $55,000

TABER, HARRY W; *BACTERIAL TRANSPORT OF ANTIBIOTICS (PCM-7924188 A01)*; 12 MONTHS $38,700

MC SHARRY, JAMES J; *IN VITRO ACTIVATION OF CELLULAR IMMUNITY BY VSV PROTEINS (PCM-8003126)*; 24 MONTHS $89,744

AMERICAN MUSEUM OF NATURAL HISTORY

GAFFNEY, EUGENE S; *SUPPORT FOR FOSSIL AMPHIBIAN, REPTILE, AND BIRD COLLECTIONS (DEB-7717550 A02)*; 12 MONTHS $35,000

MARCUS, LESLIE F, AND NEFF, NANCY A; *A SURVEY OF NUMERICAL METHODS IN SYSTEMATICS: A WORKSHOP AND MANUAL, JUNE 9-12, 1980, KINGSTON, RHODE ISLAND (DEB-7917382)*; 12 MONTHS $12,396

HERMAN, LEE H; *CURATORIAL SUPPORT OF COLLECTIONS OF DEPARTMENT OF ENTOMOLOGY (DEB-7921780)*; 12 MONTHS $103,945

GAFFNEY, EUGENE S; *PHYLOGENY AND COMPARATIVE MORPHOLOGY OF THE EARLIEST FOSSIL CHELONIANS (DEB-8002885)*; 24 MONTHS $62,000

STUNKARD, HORACE W; *BIOSYSTEMATICS OF HELMINTHIC PARASITES (DEB-8006150)*; 24 MONTHS $12,580

ZWEIFEL, RICHARD G; *SUPPORT OF SYSTEMATIC COLLECTIONS IN HERPETOLOGY (DEB-8010672)*; 36 MONTHS $224,622

BOYCE THOMPSON INST FOR PLANT RESEARCH INC

SZALAY, ALADAR A; *CLONING NIF GENES WITH SYNTHETIC DNA PROBES (PCM-7820252 A01)*; 12 MONTHS $107,328

BROOKHAVEN NATIONAL LABORATORY

SCHOENBORN, BENNO P; *NEUTRON SCATTERING ANALYSIS OF BIOLOGICAL STRUCTURES (PCM-7716763 A02)*; 12 MONTHS $170,000

KOETZLE, THOMAS F; *PROTEIN DATA BANK (PCM-7716811 A02)*; 12 MONTHS $60,000

BROOKLYN COLLEGE

SCHREIBMAN, MARTIN P; *GENETIC CONTROL OF HYPOTHALAMIC STRUCTURE AND FUNCTION (PCM-7715981 A01)*; 12 MONTHS $28,000

CITY COLLEGE

ALFANO, ROBERT R; *PHOTOSYNTHETIC PROCESS PROBED DIRECTLY WITH PICOSECOND LASER PULSES (PCM-7714966 A03)*; $2,000

ALFANO, ROBERT R; *PHOTOSYNTHETIC PROCESS PROBED DIRECTLY WITH PICOSECOND LASER PULSES (PCM-7714966 A04)*; 3 MONTHS $4,000

CALLENDER, ROBERT; *RESONANCE RAMAN STUDIES OF BIOLOGICAL CHROMOPHORES (PCM-7902683 A01)*; 12 MONTHS $60,000

COLD SPRING HARBOR LAB OF QUANTITATIVE BIOLOGY

ZIPSER, DAVID; *ASPECTS OF PROKARYOTIC MOLECULAR GENETICS (PCM-7722846 A02)*; 12 MONTHS $48,000

BURRIDGE, KEITH; *COMPUTER PROCESSING OF TWO-DIMENSIONAL GELS (PCM-7809215 A02)*; $9,990

BUKHARI, AHMAD I; *THE LIFE CYCLE OF BACTERIOPHAGE MU (PCM-7826710 A01)*; 12 MONTHS $110,000

ROBERTS, RICHARD J; *RESTRICTION ENDONUCLEASES (PCM-7919882*)*; 12 MONTHS $70,000

GARRELS, JAMES I; *COMPUTERIZED TWO-DIMENSIONAL GEL SCANNING FACILITIES (PCM-7922769*)*; 24 MONTHS $140,000

ZIPSER, DAVID; *GENETICS OF HSV-1 TK EXPRESSION IN TRANSFORMED CELLS (PCM-8003727)*; 12 MONTHS $50,000

HICKS, JAMES B; *WORKSHOP ON PLANT MOLECULAR BIOLOGY, COLD SPRING HARBOR, NEW YORK (PCM-8006628*)*; 12 MONTHS $7,373

UDRY, WILLIAM R; *SYMPOSIUM - MOVABLE GENETIC ELEMENTS, COLD SPRING HARBOR, NEW YORK, MAY 28 - JUNE 4, 1980 (PCM-8008732)*; 12 MONTHS $6,000

ROBERTS, RICHARD J, AND COMB, DONALD G; *SEARCH FOR NEW RESTRICTION ENDONUCLEASES (PCM-8011709*)*; 12 MONTHS $19,000

COLLEGE AT NEW PALTZ

BRENNER, GILBERT J; *PALEOEQUATORIAL, EARLY ANGIOSPERM POLLEN FROM THE LOWER CRETACEOUS OF ISRAEL (DEB-8011653)*; 12 MONTHS $24,772

COLLEGE AT OSWEGO

HAMMILL, TERRENCE M; *SYSTEMATICS IN THE FUNGAL ORDER MUCORALES (DEB-8010613)*; 24 MONTHS $33,360

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

SILVERSTEIN, ROBERT M; *PHEROMONES OF SEVERAL TREE-PEST INSECTS (PCM-7813244 A02)*; 12 MONTHS $41,400

MULLER-SCHWARZE, DIETLAN, AND SILVERSTEIN, ROBERT M; *STIMULI THAT RELEASE THE FLEHMEN RESPONSE (BNS-7821331 A01*)*; 12 MONTHS $25,000

COLUMBIA UNIVERSITY-COLLEGE OF PHYSICIANS AND SURGEONS

KABAT, ELVIN A; *IMMUNOCHEMISTRY OF POLYSACCHARIDES (PCM-7681029 A03)*; 12 MONTHS $140,000

GOLDBERG, SETH I; *MECHANISM OF BB MAGNIFICATION IN DROSOPHILA (PCM-7724071 A01)*; 12 MONTHS $53,000

BLANK, MARTIN; *ELECTROCHEMICAL PROCESSES AT SURFACES IN THE REGULATION OF MEMBRANE TRANSPORT (PCM-7809214 A01)*; 12 MONTHS $49,260

BLANK, MARTIN; *ELECTROCHEMICAL PROCESSES AT SURFACES IN THE REGULATION OF MEMBRANE TRANSPORT (PCM-7809214 A02*)*; $4,919

SAWYER, WILBUR H; *EVOLUTION OF NEUROHYPOPHYSIAL FUNCTIONS AMONG VERTEBRATES (PCM-8004076)*; 12 MONTHS $49,551

COLUMBIA UNIVERSITY

MANCINELLI, ALBERTO L; *HIGH IRRADIANCE RESPONSES OF PLANT PHOTOMORPHOGENESIS (PCM-7680932 A04)*; $5,821

ERLANGER, BERNARD F; *ANTIBODIES SPECIFIC FOR OLIGONUCLEOTIDE SEQUENCES (PCM-7719280 A02)*; 12 MONTHS $33,000

TZAGOLOFF, ALEXANDER A; *MAPPING OF TRANSFER RNA AND RIBOSOMAL GENES IN MITOCHONDRIAL DNA (PCM-7816089 A01)*; 12 MONTHS $27,000

BENESCH, REINHOLD; *ALLOSTERIC EFFECTS AND SELF-ASSEMBLY IN NATIVE AND CHEMICALLY MODIFIED HEMOGLOBINS (PCM-7911610)*; 12 MONTHS $50,000

GOODMAN, REBA M; *GENETIC CONTROL MECHANISMS IN SALIVARY CHROMOSOMES (PCM-7912347 A01)*; 12 MONTHS $48,253

MILLS, DONALD R; *MECHANISM OF ENZYME SYNTHESIS (PCM-7921109)*; 12 MONTHS $55,000

BEYCHOK, SHERMAN; *PROTEIN FOLDING AND ASSEMBLY IN RELATION TO CELL FUNCTION (PCM-8005614)*; 12 MONTHS $70,000

CANTOR, CHARLES R; *NUCLEOPROTEIN PACKAGING IN VIRUSES AND CHROMATIN (PCM-8006354)*; 12 MONTHS $44,000

MAYLIE PFENNING, MARIE F; *PLASMALEMMAL GLYCOCONJUGATES IN PREIMPLANTATION DEVELOPMENT (PCM-8012023)*; 12 MONTHS $45,000

TANNENBAUM, JANET; *EFFECTS OF PERTURBING AGENTS ON CYTOSKELETAL COMPOSITION AND METABOLISM (PCM-8014072)*; 12 MONTHS $45,000

KAWAI, MASATAKA; *CROSS-BRIDGE KINETICS IN SKELETAL MUSCLE (PCM-8014527)*; 12 MONTHS $50,000

CORNELL UNIVERSITY

CHABOT, BRIAN F; *LOCAL DISTRIBUTION LIMITS OF PLANT POPULATIONS (DEB-7708432 A02)*; 24 MONTHS $84,869

BATES, DAVID M; *STUDIES TOWARD A GENERA PALMARUM (DEB-7723374 A02)*; 12 MONTHS $57,230

TAUBER, MAURICE J, AND TAUBER, CATHERINE A; *GENETICS OF INSECT DIAPAUSE (DEB-7725486 A02)*; 12 MONTHS $35,000

CISNE, JOHN L; *FIVE MILLION YEARS IN THE EVOLUTION OF MARINE BENTHIC ORGANISMS (DEB-7803179 A02*)*; 12 MONTHS $20,030

ZAITLIN, MILTON; *PLANT VIRUS REPLICATION (PCM-7803255 A02)*; $20,000

ZAITLIN, MILTON; *PLANT VIRUS REPLICATION (PCM-7803255 A03)*; 12 MONTHS $35,000

WHITTAKER, ROBERT H; *RESEARCH ON COMMUNITY ANALYSIS (DEB-7809340 A02)*; $11,704

HESS, GEORGE P; *STRUCTURE AND FUNCTION OF REGULATORY PROTEINS (PCM-7809356 A02)*; 12 MONTHS $35,000

MEISTER, ALTON; *BIOCHEMICAL MECHANISMS (PCM-7810349 A01)*; 24 MONTHS $43,286

DUXBURY, JOHN M; *SOILS AS A SOURCE OF SINK OF ATMOSPHERIC N2O (DEB-7811639 A02)*; 12 MONTHS $58,201

KINSELLA, JOHN E; *REGULATION OF PHOSPHOLIPID SYNTHESIS IN ANIMALS (PCM-7815118 A01)*; 12 MONTHS $49,343

CREASY, LEROY L; *THE INACTIVATION OF PHENYLALANINE AMMONIA-LYASE (PCM-7820040)*; 24 MONTHS $63,007

EDELSTEIN, STUART J; *QUATERNARY INTERACTIONS IN PROTEINS (PCM-7910462 A01)*; 12 MONTHS $50,000

MC CARTY, RICHARD E; *FUNCTION OF COUPLING FACTOR 1 IN PHOTOPHOSPHORYLATION BY CHLOROPLASTS (PCM-7911476)*; 12 MONTHS $66,836

SCHERAGA, HAROLD A; *STRUCTURAL STUDIES OF PROTEINS (PCM-7920279)*; 12 MONTHS $70,000

WILSON, DAVID B; *REGULATION OF THE GALACTOSE ENZYMES IN YEAST (PCM-7920285)*; 24 MONTHS $80,000

CLAUSEN, ROBERT T; *SEDUM OF THE MEXICAN CORDILLERAN PLATEAU (DEB-7921034)*; 36 MONTHS $24,774

FEENY, PAUL P; *COMPARATIVE POPULATION AND CHEMICAL ECOLOGY OF HERBIVOROUS INSECTS (DEB-7922190)*; 12 MONTHS $54,097

BRUSSARD, PETER F; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-7922141)*; 16 MONTHS $4,845

GREENBERG, E P; *MECHANISMS OF MOTILITY AND MOTILE BEHAVIOR OF SPIROCHETES (PCM-7924800)*; 24 MONTHS $83,198

CALVO, JOSEPH M; *REGULATORY AND EVOLUTIONARY RELATIONSHIPS BETWEEN IIVH1 AND LEUABCD GENE CLUSTERS (PCM-8003480)*; 12 MONTHS $23,784

BROWN, WILLIAM L; *RECLASSIFICATION OF FORMICIDAE (DEB-8003722)*; 24 MONTHS $78,887

RISCH, STEPHEN; *THE ECOLOGICAL ROLE OF ANTS IN SUBSISTENCE TROPICAL AGRICULTURE (DEB-8004284)*; 24 MONTHS $115,290

WASSERMAN, ROBERT H; *AMINO ACID ANALYSIS AND PROTEIN SEQUENCING FACILITY (PCM-8004690)*; 12 MONTHS $66,000

PIMENTEL, DAVID; *GENETIC FEEDBACK INTERACTIONS IN PARASITE-HOST SYSTEMS (DEB-8010912)*; 12 MONTHS $44,968

CORNELL UNIVERSITY-CORNELL UNIVERSITY MEDICAL CENTER

MEISTER, ALTON; *EQUIPMENT FOR STUDIES ON AMINO ACIDS AND PEPTIDES (PCM-7904218)*; 12 MONTHS $21,135

NOVOGRODSKY, ABRAHAM, AND STENZEL, KURT H; *LYMPHOCYTE ACTIVATION BY MITOGENIC OXIDIZING AGENTS (PCM-7904592 A01)*; 12 MONTHS $75,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

RACKER, EFRAIM; *RESOLUTION AND RECONSTITUTION OF THE SYSTEM OF PHOTOPHOSPHORYLATION (PCM-7517887 A04)*; 12 MONTHS $35,000

USHER, DAVID A; *SEQUENCE SPECIFIC MODIFICATION OF NUCLEIC ACIDS (PCM-7806651 A02)*; 12 MONTHS $30,000

WHITTAKER, ROBERT H; *RESEARCH ON COMMUNITY ANALYSIS (DEB-7809340 A03)*; 12 MONTHS $75,390

LIKENS, GENE E; *COLLABORATIVE RESEARCH ON THE HYDROLOGIC-NUTRIENT CYCLE INTERACTION IN SMALL UNDISTURBED AND MAN-MANIPULATED ECOSYSTEMS (DEB-7810719 A03)*; 12 MONTHS $163,218

HEPPEL, LEON A; *BINDING PROTEINS AND THEIR ROLE IN ACTIVE TRANSPORT (PCM-7811976 A01)*; 12 MONTHS $52,000

GULLEDGE, JAMES L; *CURATORIAL SUPPORT OF THE ORNITHOLOGICAL COLLECTION OF THE LIBRARY OF NATURAL SOUNDS (DEB-7821438 A01)*; 12 MONTHS $56,053

ZAHLER, STANLEY A; *GENE TRANSFER BY BACILLUS SUBTILIS BACTERIOPHAGE SP(BETA) (PCM-7824113 A01)*; 12 MONTHS $77,000

GIBSON, QUENTIN H; *KINETICS AND MECHANISM OF LIGAND BINDING BY HEMOGLOBINS OF FISHES (PCM-7910446 A01)*; 12 MONTHS $50,000

SCHERAGA, HAROLD A, AND POTTLE, C; *A COMPUTER HARDWARE AND SOFTWARE DEVELOPMENT PROGRAM FOR STUDIES OF PROTEIN FOLDING (PCM-7918336)*; 12 MONTHS $40,500

EMLEN, STEPHEN T; *FIELD STUDY OF COOPERATIVE BEHAVIOR (BNS-7924436*)*; 12 MONTHS $30,889

LEVIN, SIMON A; *MATHEMATICAL THEORIES OF POPULATION DYNAMICS AND COMMUNITY STRUCTURE (MCS-8001618*)*; 12 MONTHS $5,000

WEBB, WATT W; *MOLECULAR MECHANISMS OF BIOLOGICAL MEMBRANE DYNAMICS (PCM-8007634)*; 12 MONTHS $85,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY - STATE

BRUNS, PETER J; *CONJUGATON IN TETRAHYMENA (PCM-7707056 A02)*; 12 MONTHS $60,000

SPANSWICK, ROGER M; *BIOPHYSICAL STUDIES ON ION TRANSPORT IN PLANTS (PCM-7812119 A01)*; 12 MONTHS $60,000

EARLE, E D, AND GRACEN, V E; *PROTOPLAST FUSION AND MITOCHONDRIAL TRANSFER (PCM-7822572 A01)*; 12 MONTHS $64,671

CLAYTON, RODERICK K; *PHOTOSYNTHETIC ENERGY CONVERSION (PCM-7823361 A01)*; 12 MONTHS $40,000

WALLACE, DONALD H; *STUDIES ON SELF RECOGNITION AND CONTROL OF THE INCOMPATIBILITY RESPONSE OF POLLEN (PCM-8004426)*; 24 MONTHS $50,000

ROCHOW, W F; *APHID TRANSMISSION OF LUTEOVIRUSES: MECHANISM OF SPECIFICITY (PCM-8007852)*; 12 MONTHS $46,500

HAUSFATER, GLENN; *LONGITUDINAL STUDIES OF PRIMATE SOCIETIES (BNS-8007893*)*; 12 MONTHS $13,000

CORNELL UNIVERSITY - STATE-AGRICULTURAL EXPERIMENT STATION

ROELOFS, WENDELL L; *PHEROMONE CHEMISTRY, BIOCHEMISTRY AND SPECIFICITY IN LEPIDOPTERA (PCM-7813241 A02)*; 12 MONTHS $60,842

BOWERS, WILLIAM S, AND SODERLUND, DAVID M; *JUVENILE HORMONE ANTAGONISTS (PCM-7903245 A01)*; 12 MONTHS $84,426

BROWN, WILLIAM L; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-7919679)*; 6 MONTHS $3,362

DOWNSTATE MEDICAL CENTER AT BROOKLYN

RODRIGUEZ-BOULA, ENRIQUE; *ASYMMETRIC BUDDING OF VIRUSES IN EPITHELIAL CELLS (PCM-8011053*)*; 18 MONTHS $92,830

BENOFF-RIND, SUSAN H; *CONTROL OF MYOSIN GENE EXPRESSION IN MURINE MUSCLE CELL LINES (PCM-8012312)*; 12 MONTHS $60,000

HEALTH RESEARCH INC

PARSONS, DONALD F; *ELECTRON DIFFRACTION OF BIOLOGICAL MATERIALS IN THE HYDRATED STATE (PCM-7724212 A02)*; 12 MONTHS $38,168

BRADY, GEORGE W; *X-RAY SCATTERING STUDIES OF SUPERHELICAL DNA (PCM-7913078)*; 12 MONTHS $36,000

HEALTH RESEARCH INC-ROSWELL PARK DIVISION

SWANK, RICHARD T; *LYSOSOME DYSFUNCTIONS IN MOUSE PIGMENT MUTANTS (PCM-7724804 A02)*; 12 MONTHS $35,000

LASKOWSKI, MICHAEL S; *SPECIFICITY OF NUCLEOLYTIC ENZYMES (PCM-7823757 A01)*; 12 MONTHS $35,000

SWANK, RICHARD T; *REGULATION OF LYSOSOMAL ENZYMES IN MACROPHAGES (PCM-7901173 A01)*; 12 MONTHS $60,000

BELLO, JAKE; *METHYLATED PEPTIDE MODELS FOR METHYLATED PROTEINS (PCM-7903666)*; 24 MONTHS $52,000

BOX, HAROLD C, AND ALDERFER, JAMES L; *NMR INSTRUMENT (PCM-8003701)*; 12 MONTHS $60,000

HUNTER COLLEGE

TOMASZ, MARIA; *INTERACTION OF SEMIQUINONE RADICALS OF ANTIBIOTICS WITH DNA (PCM-7724075 A01)*; $6,500

HASCHEMEYER, AUDREY E; *CONTROL OF PROTEIN SYNTHESIS IN TEMPERATURE ACCLIMATION OF MARINE ORGANISMS (PCM-7921091)*; 24 MONTHS $70,000

TOMASZ, MARIA; *FORMATION AND STRUCTURE OF ADDUCTS OF MITOMYCIN C (PCM-7922891)*; 12 MONTHS $36,000

LIPKE, PETER N; *ROLE OF CARBOHYDRATE IN INTERCELLULAR ADHESION IN YEAST (PCM-8004732)*; 24 MONTHS $90,000

MOUNT SINAI SCH OF MED CITY UNIV OF NEW YORK

PALESE, PETER; *MUTANTS OF INFLUENZA VIRUS (PCM-7807848 A03)*; 12 MONTHS $60,000

KRULWICH, TERRY A; *PROTONMOTIVE FORCE AND SOLUTE TRANSPORT IN ALKALOPHILIC AND ACIDOPHILIC BACTERIA (PCM-7810213 A01)*; 12 MONTHS $46,750

BENTLEY, PETER J, AND BALDWIN, GERALDINE F; *MECHANISMS OF OSMOREGULATION IN AMPHIBIA: RELATIONSHIPS TO CALCIUM METABOLISM (PCM-7821446 A01)*; 12 MONTHS $52,195

BEATTIE, DIANA S; *MITOCHONDRIAL BIOGENESIS IN YEAST (PCM-7824535 A01)*; 12 MONTHS $32,832

BRODSKY, WILLIAM A; *MODES OF ANION TRANSPORT IN EPITHELIAL CELLS (PCM-7923511)*; 12 MONTHS $72,500

SCOTT, WALTER N; *THE MECHANISM OF ALDOSTERONE'S STIMULATION OF SODIUM TRANSPORT (PCM-7923513)*; 12 MONTHS $67,300

NEW YORK ACADEMY OF SCIENCES

FREDRICK, JEROME F; *CONFERENCE ON THE ORIGINS OF EUKARYOTIC CELL ORGANELLES: JANUARY 23-25, 1980, NEW YORK, NEW YORK (DEB-7918488*)*; 9 MONTHS $8,500

MORAWETZ, HERBERT; *CONFERENCE ON LUMINESCENCE FROM MACROMOLECULES, BIOLOGICAL AND SYNTHETIC: EIGHTH KATZIR MEMORIAL CONFERENCE, NEW YORK CITY, JUNE 16-19, 1980 (DMR-7922273*)*; 12 MONTHS $3,000

WATTERSON, DANIEL M; *CONFERENCE ON CALMODULIN AND CELL FUNCTION (PCM-7925582*)*; 12 MONTHS $3,000

DELUCA, LUIGI M; *CONFERENCE ON MODULATION OF CELLULAR INTERACTIONS BY VITAMIN A AND ITS ANALOGS (RETINOIDS) (PCM-7925670*)*; 12 MONTHS $5,000

NEW YORK BOTANICAL GARDEN

KOYAMA, TETSUO; *A TAXONOMIC MONOGRAPH OF THE FAMILY SMILACACEAE (DEB-7712840 A03)*; 12 MONTHS $23,341

LUTEYN, JAMES L; *REVISION OF THE GENUS CAVENDISHIA (ERICACEAE) IN SOUTH AMERICA (DEB-7713455 A03)*; 12 MONTHS $13,321

CRONQUIST, ARTHUR, AND HOLMGREN, NOEL H; *VASCULAR PLANTS OF THE INTERMOUNTAIN WEST (DEB-7713456 A02)*; 24 MONTHS $117,222

MAGUIRE, BASSETT; *THE BOTANY OF THE GUAYANA HIGHLAND (DEB-7722843 A01)*; 24 MONTHS $35,245

STEERE, WILLIAM C; *MOSSES OF ARCTIC NORTH AMERICA: A MONOGRAPHIC TREATMENT (DEB-7724050 A02)*; 12 MONTHS $27,369

PRANCE, GHILLEAN T; *U.S. PARTICIPATION IN THE AMAZON FLORA PROJECT: PHASE II (INT-7823241 A01*)*; 12 MONTHS $116,481

HOLMGREN, PATRICIA; *SUPPORT OF THE SYSTEMATIC COLLECTIONS (DEB-7824922 A01)*; 12 MONTHS $296,550

PRANCE, GHILLEAN T; *BOTANICAL EXPLORATION OF PANTEPUI MOUNTAINS: MARAHUACA (DEB-8004283)*; 12 MONTHS $12,946

ROGERSON, CLARK T; *SUPPORT FOR PUBLICATION OF REPORTS ON SPONSORED RESEARCH (DEB-8005535)*; 12 MONTHS $53,322

CRONQUIST, ARTHUR; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8007546)*; 12 MONTHS $1,630

LONG, CHARLES R; *A MODERN BIBLIOGRAPHY OF THE LITERATURE OF SYSTEMATIC BOTANY (DEB-8007704)*; 12 MONTHS $17,111

NEW YORK MEDICAL COLLEGE

HOCHSTADT, JOY; *REGULATION OF PURINE UTILIZATION IN BACTERIA (PCM-7804328 A01)*; 12 MONTHS $53,201

NEW YORK UNIVERSITY-MEDICAL CENTER

MAAS, WERNER K; *GENETICS OF ENTEROTOXIN PRODUCTION IN E. COLI (PCM-7725134 A01)*; 24 MONTHS $101,000

KARPATKIN, MARGARET, AND KARPATKIN, SIMON; *HUMORAL REGULATION OF COAGULATION FACTOR LEVELS BY COAGULOPOIETINS (PCM-7815353 A02)*; 12 MONTHS $60,657

SALTON, MILTON R; *BIOCHEMISTRY OF BACTERIAL MEMBRANES (PCM-7824385 A01)*; 12 MONTHS $45,000

NEW YORK UNIVERSITY

BOROWSKY, RICHARD L; *TAILSPOT POLYMORPHISM OF XIPHOPHORUS VARIATUS (DEB-7912341 A01)*; 12 MONTHS $44,078

KAMBYSELLIS, MICHAEL P, AND CRADDOCK, ELYSE M; *OVARIAN DEVELOPMENT IN NATURAL POPULATIONS OF HAWAIIAN DROSOPHILIDAE (PCM-7913074)*; 12 MONTHS $52,000

GEACINTOV, NICHOLAS E; *ENERGY TRANSFER MECHANISMS IN PHOTOSYNTHETIC MEMBRANES (PCM-8006109)*; 12 MONTHS $52,000

PUBLIC HEALTH RESEARCH INSTITUTE OF NEW YORK

NOVICK, RICHARD P; *GENETIC TRANSLOCATION IN BACTERIA (PCM-7725476 A01)*; 12 MONTHS $34,993

NOVICK, RICHARD P; *GENETIC TRANSLOCATION IN BACTERIA (PCM-7725476 A02)*; 12 MONTHS $37,000

POINDEXTER, JEANNE S; *CELL ENVELOPE STRUCTURE AND ASSEMBLY IN CAULOBACTER (PCM-7903659)*; 24 MONTHS $75,000

QUEENS COLLEGE

MUNDINGER, PAUL C; *BIOGEOGRAPHIC IMPLICATIONS OF DIALECT IN AN INTRODUCED AVIAN SPECIES (DEB-7906361)*; 24 MONTHS $50,000

WASSERMAN, MARVIN; *SYSTEMATICS AND EVOLUTION OF THE REPLETA GROUP OF THE GENUS DROSOPHILA (DEB-7921709)*; 24 MONTHS $52,850

RENSSELAER POLYTECHNIC INSTITUTE

WARDEN, JOSEPH T; *ESR STUDIES ON MITOCHONDRIA FROM NEUROSPORA MUTANTS (PCM-7722377 A01)*; 12 MONTHS $35,000

PFAU, CHARLES J; *MAINTENANCE OF PERSISTENT MURINE LCM VIRUS INFECTION (PCM-7917935)*; 12 MONTHS $48,875

ROCKEFELLER UNIVERSITY

MAUZERALL, DAVID C; *PHOTOCHEMICAL FORMATION OF OXYGEN (PCM-7709102 A03)*; $40,000

MAUZERALL, DAVID C; *PHOTOCHEMICAL FORMATION OF OXYGEN (PCM-7709102 A04)*; $4,000

BECKER, JOSEPH W; *STRUCTURAL CHEMISTRY OF SACCHRIDE-BINDING PROTEINS (PCM-7709377 A01)*; 24 MONTHS $115,000

MOORE, STANFORD; *BIOCHEMISTRY OF RIBONUCLEASES (INT-7715791 A01*)*; 12 MONTHS $10,000

SY, JOSE; *METABOLISM AND FUNCTION OF GUANOSINE POLYPHOSPHATES (PCM-7717683 A02)*; 12 MONTHS $35,000

WATTERSON, DANIEL M; *CYCLIC NUCLEOTIDE DEPENDENT PROTEIN KINASES (PCM-7807966 A01)*; 12 MONTHS $30,000

LANDSBERGER, FRANK R; *STUDIES ON RECONSTITUTED MEMBRANES OF ENVELOPED VIRUSES (PCM-7809346 A01)*; 16 MONTHS $47,000

TOMASZ, ALEXANDER; *STUDIES ON THE MECHANISM OF LYTIC AND BACTERICIDAL ACTION OF PENICILLIN AND OTHER CELL WALL INHIBITORY AGENTS (PCM-7813770 A02)*; 12 MONTHS $37,000

HOTCHKISS, ROLLIN D; *THE INTERACTION OF CELL GENOMES IN FUSED BACTERIAL PROTOPLASTS (PCM-7824834 A01)*; 12 MONTHS $59,541

VIDALI, GIORGIO; *THE ROLE OF HISTONE ACETYLATION IN CHROMATIN ORGANIZATION (PCM-7907104 A01)*; 12 MONTHS $35,000

ZINDER, NORTON D; *GENETIC AND PHYSIOLOGICAL STUDIES OF THE BACTERIOPHAGE F1 (PCM-7910441 A01)*; $216,509

LIPMANN, FRITZ; *CHARACTERIZATION OF THE GLUCOSE BINDING/TRANSPORT FACTOR(S) ISOLATED FROM NORMAL AND ROUS SARCOMA VIRUS-TRANSFORMED CHICKEN FIBROBLASTS (PCM-7910513)*; 24 MONTHS $64,000

ROBERTSON, HUGH D; *STRUCTURE AND FUNCTION OF RNA SIGNALS FOR GENE REGULATION (PCM-7911708 A01)*; 12 MONTHS $50,000

AGOSTA, WILLIAM C; *EQUIPMENT FOR BIOLOGICAL AND CHEMICAL RESEARCH (PCM-7912083)*; 12 MONTHS $175,000

LANDSBERGER, FRANK R; *MAGNETIC RESONANCE STUDIES OF MEMBRANES, ENVELOPED VIRUSES AND VIRUS MEMBRANE INTERACTIONS (PCM-7922956)*; 24 MONTHS $65,000

RIZACK, MARTIN A; *MECHANISM OF LIPOLYTIC HORMONE ACTION (PCM-7923060*)*; 12 MONTHS $8,683

DICKSON, ELIZABETH, AND ROBERTSON, HUGH D; *MOLECULAR BIOLOGY OF VIROIDS: INFECTIOUS RNA IN PLANTS (PCM-8004315)*; 12 MONTHS $49,617

SILVERSTEIN, SAMUEL C, AND LOIKE, JOHN D; *MONONUCLEAR LEUKOCYTES IN MUSCULAR DYSTROPHY (PCM-8004569)*; 24 MONTHS $100,000

DE DUVE, CHRISTIAN; *COMPARATIVE BIOCHEMISTRY OF SUBCELLULAR ORGANELLES (PCM-8008713)*; 12 MONTHS $115,000

COHEN, JOEL E; *MATHEMATICAL MODELS OF SELECTION AND INTERACTION AMONG POPULATIONS (DEB-8011025)*; 12 MONTHS $40,000

CHOPPIN, PURNELL W; *VIRAL MEMBRANE STRUCTURE AND VIRUS-INDUCED ALTERATIONS IN CELL SURFACES (PCM-8013461)*; 12 MONTHS $45,000

ROOSEVELT HOSPITAL

SPRINSON, DAVID B; *REGULATION OF AROMATIC ACID AND OF STEROL BIOSYNTHESIS (PCM-7925136)*; 12 MONTHS $47,688

SLOAN KETTERING INSTITUTE FOR CANCER RESEARCH

HAMMERLING, ULRICH G; *BIOLOGICAL SIGNALS REGULATING DIFFERENTIATION OF B LYMPHOCYTES (PCM-7707018 A02)*; 12 MONTHS $40,000

BENNETT, DOROTHEA, DOOHER, GERALD B, AND SPIEGELMAN, MARTHA; *GENETIC CONTROL OF EMBRYONIC AND CELLULAR DIFFERENTIATION: MODEL SYSTEMS IN T-LOCUS MUTANTS (PCM-7717835 A03)*; 12 MONTHS $85,000

SINISCALCO, MARCELLO; *GENE LINKAGE AND NON-DISJUNCTION (PCM-7808944 A02)*; 12 MONTHS $53,674

ALBRECHT, ALBERTA M; *METABOLIC REGULATION OF TETRAHYDROFOLATE COENZYMES IN FOLATE AUXOTROPHS (PCM-7823162)*; 24 MONTHS $51,881

DAY, NOORBIBI K; *PHYLOGENETIC DEVELOPMENT OF THE COMPLEMENT SYSTEM (PCM-8001915)*; 24 MONTHS $70,000

LITMAN, G W; *VARIABLE REGION GENE DIVERSITY IN HETERODONTUS FRANCISCI (PCM-8001919)*; 24 MONTHS $80,000

ST JOHN'S UNIVERSITY

LOCKSHIN, RICHARD A; *PROTEOLYSIS DURING DEGENERATION OF INSECT MUSCLES (PCM-7715687 A02)*; 12 MONTHS $35,598

STATE UNIVERSITY AT ALBANY

LERMAN, LEONARD S; *TORSIONAL AND FLEXURAL FREEDOM IN DNA (PCM-7725583 A03)*; 12 MONTHS $60,000

MASCARENHAS, JOSEPH P; *CONTRIBUTION OF RNA'S OF ALLOMYCES TO ZYGOTE GERMINATION AND EARLY DEVELOPMENT (PCM-7806810 A01)*; 24 MONTHS $90,000

SARMA, RAMASWAMY H; *NUCLEAR MAGNETIC RESONANCE STUDIES OF NUCLEIC ACID STRUCTURE (PCM-7822531 A01)*; 12 MONTHS $36,000

LERMAN, LEONARD S; *THERMODYNAMICS OF DNA PACKING (PCM-7920672)*; 24 MONTHS $80,000

MYER, YASH P; *RESONANCE RAMAN SPECTROSCOPY AND HEME C SYSTEMS (PCM-7922622)*; 12 MONTHS $47,000

BROWN, STEPHEN C; *PROLACTIN AND CORTICOSTEROID CONTROL OF HYDROMINERAL BALANCE DURING DEVELOPMENT (PCM-7922793)*; 12 MONTHS $35,000

RIKMENSPOEL, ROBERT; *CONTROL OF SPERM MOTILITY (PCM-8003700)*; 12 MONTHS $54,149

STATE UNIVERSITY AT BINGHAMTON

TITUS, JOHN; *AN INTEGRATIVE EVALUATION OF THE ROLE OF WATER RELATIONS IN THE VERTICAL ZONATION OF SPHAGNUM SPECIES (DEB-7810605 A01)*; 12 MONTHS $37,300

JENSEN, ROY A; *ENZYMOLOGICAL DIVERSITY IN BIOCHEMICAL PATHWAYS (DEB 7812099 A02)*; 12 MONTHS $32,497

MADISON, DALE M; *THE ROLE OF SPACING BEHAVIOR IN THE REGULATION OF RODENT POPULATIONS (DEB-7822821 A01)*; 12 MONTHS $24,019

STEVENS, EUGENE S; *ELECTRONIC STRUCTURE OF BIOPOLYMERS (PCM-7904293 A01)*; 12 MONTHS $34,000

JENSEN, ROY A; *BIOCHEMICAL GENETICS OF AROMATIC METABOLISM IN CULTURED SOMATIC CELLS OF NICOTIANA SYLVESTRIS (PCM-7907334 A01)*; 12 MONTHS $50,000

WILSON, KARL A; *THE FATE OF TRYPSIN INHIBITORS IN GERMINATING SEEDS (PCM-8003854)*; 12 MONTHS $42,214

JAENIKE, JOHN; *DETERMINANTS OF HOST PREFERENCE IN PHYTOPHAGOUS INSECTS (DEB-8008574)*; 12 MONTHS $35,000

STATE UNIVERSITY AT BUFFALO

BERNARDIS, LEE L; *NEUROENDOCRINE-NEUROGENIC CONTROL OF METABOLISM (PCM-7684381 A02)*; 12 MONTHS $33,188

WANG, JUI H; *ENERGY CONVERSION MECHANISMS IN CHLOROPLASTS AND MITOCHONDRIA (PCM-7715002 A02)*; 12 MONTHS $40,000

KOSMAN, DANIEL J; *GENESIS OF STRUCTURE AND FUNCTION IN METALLOENZYMES (PCM-7806174 A02)*; 12 MONTHS $35,000

CONDIT, RICHARD C; *TEMPERATURE SENSITIVE MUTANTS OF VACCINIA VIRUS (PCM-7904788)*; 24 MONTHS $90,045

STATE UNIVERSITY AT STONY BROOK

ROHLF, F J; *IMAGE PROCESSING IN TAXONOMY (DEB-7724611 A02)*; 12 MONTHS $38,270

LEVY, HARVEY; *OXYGEN EXCHANGE AND THE MECHANISM OF CONTRACTION (PCM-7803259 A01)*; 12 MONTHS $40,000

COHEN, SEYMOUR S; *POLYAMINES OF NORMAL AND VIRUS-INFECTED PHOTOSYNTHETIC CELLS (PCM-7804324 A02)*; 12 MONTHS $40,000

EDMUNDS, LELAND N; *CIRCADIAN RHYTHMS OF PHOTOSYNTHESIS IN EUGLENA (PCM-7805832 A01)*; 12 MONTHS $41,000

SPRINGER, CHARLES S; *NUCLEAR MAGNETIC RESONANCE STUDIES OF MODEL BIOLOGICAL MEMBRANES (PCM-7807918 A02)*; 12 MONTHS $30,000

FARRIS, JAMES S; *QUANTITATIVE METHODS OF PHYLOGENETIC ANALYSIS (DEB-7824647)*; 24 MONTHS $63,489

KOEHN, RICHARD K; *BIOCHEMICAL, PHYSIOLOGICAL AND GENETIC ANALYSES OF ADAPTATION IN MYTILUS EDULIS (DEB-7908862 A01)*; 12 MONTHS $57,429

KIRZ, JANOS; *HIGH RESOLUTION X-RAY MICROSCOPY OF BIOLOGICAL SPECIMENS (PCM-7912571 A01)*; $29,767

KIRZ, JANOS; *HIGH RESOLUTION X-RAY MICROSCOPY OF BIOLOGICAL SPECIMENS (PCM-7912571 A02)*; $7,090

KOEHN, RICHARD K; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-7919652)*; 24 MONTHS $3,800

DUDOCK, BERNARD S; *THE STRUCTURE OF ORGANELLE TRNA (PCM-7922751)*; 24 MONTHS $85,000

DALTON, LARRY R; *DEVELOPMENT OF SATURATION TRANSFER AND TIME RESOLVED TECHNIQUES AND THEIR APPLICATION TO THE HYDRODYNAMIC CHARACTERIZATION OF PROTEINS AND SUPRAMOLECULAR COMPLEXES (CHE-7950004 A16*)*; 12 MONTHS $34,000

SPRINGER, CHARLES S; *HIGH PRESSURE ELECTRON SPIN RESONANCE STUDIES OF BIOLOGICAL MEMBRANES (PCM-8003739)*; 12 MONTHS $50,000

SIMPSON, MELVIN V; *STUDIES ON MITOCHONDRIAL DNA POLYMORPHISM (PCM-8004738)*; 12 MONTHS $35,469

SOKAL, ROBERT R; *GEOGRAPHIC VARIATION IN PEMPHIGUS (DEB-8011131)*; 12 MONTHS $54,000

STATE UNIVERSITY AT STONY BROOK-SUNY-HEALTH SCIENCES CENTER STONY BROOK

MCLAUGHLIN, STUART; *SURFACE CHARGES AND H-POSITIVE CARRIERS (PCM-7903241 A01)*; 12 MONTHS $45,000

SYRACUSE UNIVERSITY

BRYAN, JOHN K; *REGULATION OF AMINO ACID BIOSYNTHESIS IN MULTICELLULAR PLANTS (PCM-7812202 A01)*; 12 MONTHS $52,343

WOLF, LARRY L, AND HAINSWORTH, F REED; *ECOLOGY AND BEHAVIOR OF PLANT-POLLINATOR INTERACTIONS (DEB-7910799 A01)*; 12 MONTHS $58,995

MCNAUGHTON, SAM J; *INTERACTIVE PROCESSES IN A GRAZING ECOSYSTEM (DEB-7922991)*; 12 MONTHS $324,909

LIPSON, EDWARD D; *GENETIC ANALYSIS OF PHYCOMYCES LIGHT RESPONSE SYSTEM (PCM-8003915)*; 12 MONTHS $50,000

VOURNAKIS, JOHN N; *ROLE OF MESSENGER RNA STRUCTURE IN THE REGULATION OF PROTEIN SYNTHESIS (PCM-8004620)*; 24 MONTHS $78,000

WARE, BENNIE R; *SUPRAMOLECULAR ASSEMBLY IN CYTOPLASMIC MOTILITY (PCM-8010924)*; 12 MONTHS $70,000

UNION COLLEGE

RAPPAPORT, RAYMOND J; *EXPERIMENTAL ANALYSIS OF ANIMAL CELL DIVISION (PCM-7902624 A01)*; 12 MONTHS $52,547

UNIVERSITY OF ROCHESTER-SCHOOL OF MEDICINE AND DENTISTRY

BERNHARD, WILLIAM A; *SOLID STATE RADIATION CHEMISTRY OF CARBOHYDRATES (PCM-7716830 A01)*; 24 MONTHS $130,000

UNIVERSITY OF ROCHESTER

KNOX, ROBERT S; *CHLOROPHYLL AND CHLOROPHYLL AGGREGATES (PCM-7720230 A02)*; 12 MONTHS $45,000

ISTOCK, CONRAD A; *EVOLUTIONARY ECOLOGY AND GENETICS OF WYEOMYIA MOSQUITOES (DEB-7724615 A02)*; 12 MONTHS $35,000

SELANDER, ROBERT K; *ECOLOGICAL POPULATION GENETICS (DEB-7823263 A01)*; 12 MONTHS $59,000

KNOX, ROBERT S; *CHLOROPHYLL AND CHLOROPHYLL AGGREGATES (PCM-8011819)*; 12 MONTHS $62,000

UPSTATE MEDICAL CENTER AT SYRACUSE

MARTONOSI, ANTHONY N; *BIOSYNTHESIS OF MUSCLE CELL PROTEINS (PCM-7919502 A01)*; $4,600

UTICA COLLEGE OF SYRACUSE UNIVERSITY

CUTLER, EDWARD B; *SYSTEMATICS OF DEEP-WATER SIPUNCULA (DEB-8011121)*; 36 MONTHS $68,730

W ALTON JONES CELL SCIENCE CENTER INC

CHAPPLE, PAUL J; *WORKSHOP ON EMBRYONIC CELL SURFACE ANTIGENS - LAKE PLACID, N Y OCTOBER 27-29, 1980 (PCM-7923488)*; 12 MONTHS $5,400

YESHIVA UNIVERSITY-ALBERT EINSTEIN COLLEGE OF MEDICINE

DAVID, CHARLES; *PROLIFERATION AND DIFFERENTIATION OF HYDRA STEM CELLS (PCM-7725426 A02)*; 12 MONTHS $42,304

SCHARFF, MATTHEW D; *SOMATIC CELL GENETICS OF IMMUNOGLOBULIN PRODUCTION (PCM-7725635 A02)*; 12 MONTHS $90,000

HURWITZ, JERARD; *ENZYMATIC REACTIONS INVOLVED IN NUCLEIC ACID METABOLISM (PCM-7816550 A01)*; 12 MONTHS $50,000

SHAPIRO, LUCILLE, AND EMMONS, SCOTT; *ELECTRON MICROSCOPE FACILITY (PCM-7921499)*; 12 MONTHS $107,370

BREWER, CURTIS F; *NMR STUDIES OF HAPTEN-ANTIBODY INTERACTIONS (PCM-7922888)*; 24 MONTHS $35,000

WITTENBERG, JONATHAN B; *MOLECULAR INTERACTIONS OF LEGHEMOGLOBIN, CYTOPLASMIC PROTEINS AND BACTEROID TERMINAL OXIDASES IN NITROGEN FIXATION (PCM-8004472)*; 12 MONTHS $49,000

SHAPIRO, LUCILLE; *REGULATION OF DIFFERENTIATION IN CAULOBACTER (PCM-8007508)*; 12 MONTHS $91,836

NORTH CAROLINA

DUKE UNIVERSITY

CULBERSON, WILLIAM L, AND CULBERSON, CHICITA F; *A BIOSYSTEMATIC STUDY OF CHEMOSYNDROMIC VARIATION IN LICHENS (DEB-7623120 A01)*; 24 MONTHS $136,169

STRAIN, BOYD R; *SOUTHEASTERN PLANT ENVIRONMENT LABORATORIES OPERATIONS (DEB-7715845 A02)*; 12 MONTHS $167,457

STONE, DONALD E; *SYSTEMATIC STUDIES ON THE DIVERSIFICATION OF ANGIOSPERM POLLEN (DEB-7724612 A02)*; 12 MONTHS $35,449

CHRISTENSEN, NORMAN L; *COLLABORATIVE RESEARCH ON SECONDARY FOREST SUCCESSION ON THE NORTH CAROLINA PIEDMONT (DEB-7804041 A02)*; 12 MONTHS $31,312

WILBUR, KARL M; *COLLABORATIVE RESEARCH ON CARBONATE CALCIFICATION: COMPARATIVE STUDIES OF UNIFYING MECHANISMS (PCM-7822242 A01)*; 12 MONTHS $73,718

STRAIN, BOYD R, AND HELLMERS, HENRY; *PLANT RESPONSES TO INCREASING GLOBAL CARBON DIOXIDE CONCENTRATION (DEB-7823640 A01)*; 12 MONTHS $134,806

STONE, DONALD E; *ADMINISTRATIVE SUPPORT, MAINTENANCE AND IMPROVEMENT OF LA SELVA FIELD STATION IN COSTA RICA (DEB-7904417 A01)*; 12 MONTHS $196,529

KUBAI, DONNA F, AND NICKLAS, R; *EVOLUTION OF CHROMOSOME MOVEMENT (PCM-7911481 A01)*; 12 MONTHS $45,000

WILBUR, HENRY M; *EXPERIMENTAL STUDIES OF AMPHIBIAN COMMUNITIES (DEB-7911539)*; 12 MONTHS $74,254

NIJHOUT, H F; *CONTROL OF ENDOCRINE SECRETION IN HEMIPTERA (PCM-7911779 A01)*; 12 MONTHS $21,650

KRAMER, PAUL J; *CAUSES OF CHILLING INJURY IN PLANTS (PCM-7917334)*; 12 MONTHS $50,691

TANFORD, CHARLES; *STRUCTURE AND FUNCTION OF CELL MEMBRANES (PCM-7920676)*; 12 MONTHS $31,000

WHITE, RICHARD A; *FACILITIES FOR PLANT SCIENCE RESEARCH (DEB-7921865)*; 12 MONTHS $143,000

BILLINGS, WILLIAM D, AND PETERSON, K M; *ROLE OF ATMOSPHERIC CARBON DIOXIDE IN ARCTIC TUNDRA (DEB-7922191)*; 18 MONTHS $123,825

WEBSTER, ROBERT E; *MEMBRANE ASSOCIATED PROTEIN STRUCTURES (PCM-7924132)*; 12 MONTHS $50,000

BILLINGS, WILLIAM D; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8002018)*; 24 MONTHS $6,500

LIVINGSTONE, DANIEL A; *DETAILED TROPICAL RECORDS OF GLOBAL CLIMATIC CHANGE (ATM-8003516*)*; 12 MONTHS $75,000

SIMONS, ELWYN L; *SUPPORT FOR THE CENTER FOR THE STUDY OF PRIMATE BIOLOGY AND HISTORY (DEB-8003675)*; 12 MONTHS $95,272

SCHLESINGER, WILLIAM H; *SOIL NUTRIENT TURNOVER IN A CHAPARRAL ECOSYSTEM (DEB-8004084)*; 12 MONTHS $54,018

DUKE UNIVERSITY-MARINE LABORATORY

BONAVENTURA, JOSEPH, AND BONAVENTURA, CELIA; *MOLECULAR CONTROLS OF RESPIRATORY PROTEINS (PCM-7906462 A01)*; 12 MONTHS $51,000

COSTLOW, JOHN D; *WORKSHOP ON NSF FACILITIES SUPPORT FOR THE EIGHTIES IN MARINE BIOLOGY, BEAUFORT, N.C., MAY 17-18, 1980 (PCM-8017003*)*; 6 MONTHS $7,983

DUKE UNIVERSITY-SCHOOL OF MEDICINE

COUNCE, SHEILA J; *GENETIC EMBRYOLOGY OF DROSOPHILA (PCM-7806149 A01)*; 6 MONTHS $9,981

MODRICH, PAUL L; *ROLE OF SUBUNITS IN T7 DNA POLYMERASE ACTIVITY (PCM-7923035 A01)*; 12 MONTHS $50,000

VARITEK, VINCENT A; *IMMUNE EFFECTOR CELLS IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS (EAE): THEIR RECOVERY, IDENTIFICATION AND IMMUNE FUNCTIONS (PCM-7912900)*; 24 MONTHS $60,000

HYLANDER, WILLIAM L; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-7924171)*; 9 MONTHS $4,785

KAMIN, HENRY, AND SIEGEL, LEWIS M; *MECHANISM OF FERREDOXIN-UTILIZING ASSIMILATORY ENZYMES IN PLANTS (PCM-7924877)*; 12 MONTHS $77,400

MOSES, MONTROSE J; *CYTOGENETIC ANALYSIS WITH THE SYNAPTONEMAL COMPLEX (PCM-8005547)*; 12 MONTHS $50,895

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

TIMOTHY, DAVID H, AND LEVINGS, C S; *THE EVOLUTION OF ORGANELLE GENOMES AND THEIR ROLE IN SYSTEMATICS (DEB-7900538 A02)*; 12 MONTHS $44,918

RABB, ROBERT L, STINNER, R E, AND GOULD, FRED L; *EFFECTS OF AGROECOSYSTEM STRUCTURES ON THE POPULATION DYNAMICS OF SELECTED ARTHROPODS (DEB-7822738 A01)*; 12 MONTHS $220,852

SORENSON, JOHN C; *METABOLISM OF SPECIFIC MRNA'S DURING MAIZE DEVEOPMENT (PCM-7823313 A01)*; 12 MONTHS $25,000

TRIANTAPHYLLOU , A C; *CYTOLOGICAL STUDIES IN THE NEMATODE SUPERFAMILY HETERODEROIDEA (DEB-7917396)*; 12 MONTHS $38,991

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL-SCHOOL OF MEDICINE

PEARLMAN, WILLIAM H; *ADRENOCORTICAL HORMONE METABOLISM IN MAMMARY GLAND (PCM-7800578 A02)*; 12 MONTHS $65,918

WOLFENDEN, RICHARD V; *HYDROPHILIC CHARACTER OF BIOLOGICAL COMPOUNDS (PCM-7823016 A01)*; 12 MONTHS $41,000

JONES, MARY E; *BIOSYNTHETIC AND TRANSFER REACTIONS (PCM-7902623 A01)*; 12 MONTHS $72,707

JONES, MARY E; *DUAL WAVELENGTH SPECTROPHOTOMETER (PCM-7922816)*; 12 MONTHS $28,754

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

REICE, SETH R, AND STIVEN, ALAN E; *REGULATION OF COMMUNITY ORGANIZATION AND PROCESSES IN STREAMS AND SALT MARSHES: AN EXPERIMENTAL APPROACH (DEB-7680443 A03)*; 6 MONTHS $12,076

LARSH, JOHN E; *ROLES OF EOSINOPHILS AND PHOSPHOLIPASE B IN HELMINTHIC INFECTIONS (PCM-7720156 A02)*; 12 MONTHS $37,000

PEET, ROBERT K; *COLLABORATIVE RESEARCH ON SECONDARY FOREST SUCCESSION ON THE NORTH CAROLINA PIEDMONT (DEB-7804043 A02)*; 12 MONTHS $31,269

RIEGER, REINHARD M; *COMPARATIVE ANATOMY OF THE BODY CAVITY OF BILATERIA (DEB-7810665 A03)*; 12 MONTHS $43,647

KINGDON, HENRY S; *PRIMARY STRUCTURE OF E. COLI GLUTAMINE SYNTHETASE (PCM-7815219 A01)*; 12 MONTHS $40,000

GRIFFITH, JACK D; *CHROMATIN - PROBES INTO ITS STRUCTURE IN THE LIVING CELL II (PCM-7903248 A01)*; 12 MONTHS $75,000

HACKENBROCK, CHARLES R; *CATALYTIC EVENTS IN THE MITOCHONDRIAL ENERGY TRANSDUCING MEMBRANE (PCM-7910963)*; 12 MONTHS $80,000

LENTZ, BARRY R; *COMPOSITION: STRUCTURE RELATIONSHIPS IN LIPID DISPERSIONS (PCM-7922733)*; 12 MONTHS $38,000

HAEFNER, JAMES W; *ANALYSIS OF ANIMAL COMMUNITY ORGANIZATION (DEB-8001802)*; 18 MONTHS $83,136

BROWN, R M; *CELLULOSE MICROFIBRIL ASSEMBLY AND ORIENTATION: ROLES IN PLANT GROWTH AND DEVELOPMENT (PCM-8005715)*; 12 MONTHS $63,621

TALMAGE, ROY V; *THE PHYSIOLOGICAL FUNCTION OF CALCITONIN IN MAMMALS: A UNIQUE CALCIUM STORAGE COMPARTMENT IN BONE (PCM-8007288)*; 12 MONTHS $45,000

VITOUSEK, PETER M; *AN EXPERIMENTAL AND COMPARATIVE INVESTIGATION INTO THE FACTORS CONTROLLING NUTRIENT LOSSES FROM DISTURBED ECOSYSTEMS (DEB-8009927*)*; 5 MONTHS $169,322

VITOUSEK, PETER M; *FACTORS CONTROLLING NUTRIENT LOSSES FROM DISTURBED ECOSYSTEMS (DEB-8011674)*; 12 MONTHS $190,834

GENSEL, PATRICIA G; *EARLY AND MIDDLE DEVONIAN PLANTS (DEB-8011705)*; 12 MONTHS $25,113

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

BARDEN, LAWRENCE S; *TREE REPLACEMENT IN SMALL CANOPY GAPS OF SOUTHERN APPALACHIAN FORESTS (DEB-8003509)*; 12 MONTHS $9,751

WAKE FOREST UNIVERSITY-BOWMAN GRAY SCHOOL OF MEDICINE

PARCE, J W; *EPR FACILITY (PCM-7922700)*; 12 MONTHS $70,000

PARCE, J W; *KINETICS OF ANTIBODY DEPENDENT IMMUNE RECOGNITION (PCM-7922937)*; 24 MONTHS $68,305

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA MAIN CAMPUS

SHERIDAN, WILLIAM F; *COLLABORATIVE RESEARCH ON GENETIC AND EMBRYO CULTURE STUDIES OF DEFECTIVE MAIZE MUTANTS (PCM-7610563 A02)*; $2,000

SHERIDAN, WILLIAM F; *NUTRITIONALLY DEFECTIVE MAIZE KERNEL MUTANTS (PCM-8004814*)*; 12 MONTHS $60,000

OHIO

BOWLING GREEN STATE UNIVERSITY

WOODRUFF, RONNY C; *MUTATOR ACTIVITY AND THE GENETIC STRUCTURE OF NATURAL POPULATIONS (DEB-7923007)*; 24 MONTHS $80,914

WOODRUFF, RONNY C; *MAINTENANCE OF A DROSOPHILA MELANOGASTER STOCK CENTER (DEB-8005965)*; 12 MONTHS $75,000

CASE WESTERN RESERVE UNIVERSITY

WOOD, HARLAND G, AND COOPER, CECIL; *ROLE OF INORGANIC PYROPHOSPHATE IN METABOLISM (PCM-7722790 A02)*; 12 MONTHS $40,000

HOPFER, ULRICH; *SMALL INTESTINAL NUTRIENT AND ELECTROLYTE TRANSPORT (PCM-7807211 A01)*; 12 MONTHS $31,530

SABLE, HENRY Z; *INTERACTION OF ENZYMES, COENZYMES, SUBSTRATES AND METAL IONS (PCM-7823701 A01)*; 12 MONTHS $25,000

BURKE, MORRIS; *STUDIES ON THE MOLECULAR MECHANISMS OF MUSCLE CONTRACTION THE ROLE OF THE ALKALI LIGHT CHAINS (PCM-7905193 A01)*; 24 MONTHS $80,000

CRAGO, PATRICK E; *FORCE FEEDBACK IN THE REGULATION OF MUSCLE CONTRACTION (PCM-7915319)*; 24 MONTHS $107,564

ROSENBERRY, TERRONE L; *STRUCTURE OF THE COLLAGEN-LIKE SUBUNITS OF ACETYLCHOLINESTERASE (PCM-8007061)*; 12 MONTHS $49,000

CASE WESTERN RESERVE UNIVERSITY-SCHOOL OF MEDICINE

MAGUIRE, MICHAEL E; *NUCLEOTIDE AND CATION REGULATION OF HORMONE RESPONSE (PCM-7724693 A02)*; 12 MONTHS $36,700

LEIS, JONATHAN P, AND MERRICK, WILLIAM C; *PURCHASE OF RESEARCH EQUIPMENT TO COMPLETE A MOLECULAR GENETICS UNIT (PCM-8004457)*; 12 MONTHS $20,500

GERSHMAN, HOWARD; *CELL MOVEMENT AND EXTRACELLULAR MATRIX (PCM-8017858)*; 24 MONTHS $75,000

CHARLES F KETTERING FOUNDATION-CHARLES F KETTERING RESEARCH LABORATORY

KEISTER, DONALD L; *ROLE OF OXYGEN AND GLUTAMINE SYNTHETASE IN NITROGEN FIXATION AND AMMONIA ASSIMILATION IN RHIZOBIUM (PCM-7806672 A01)*; 12 MONTHS $37,042

BAUER, WOLFGANG D; *THE ROLE OF LECTINS IN PLANT-MICROORGANISM INTERACTIONS (PCM-7922947)*; 12 MONTHS $69,900

KE, BACON; *PRIMARY PHOTOCHEMICAL AND ELECTRON-TRANSPORT REACTIONS IN PHOTOSYNTHESIS (PCM-8003702)*; 12 MONTHS $87,000

KENT STATE UNIVERSITY

GRAHAM, ALAN A; *PALEOENVIRONMENTS AND CENOZOIC EVOLUTION OF TROPICAL AMERICAN VEGETATION (DEB-8007312)*; 24 MONTHS $30,901

MEDICAL COLLEGE OF OHIO AT TOLEDO

NELSON, LEONARD; *A MEANS OF REGULATING FLAGELLAR MOVEMENT IN SPERM (PCM-8002358)*; 12 MONTHS $42,918

MIAMI UNIVERSITY CENTRAL OFFICE

MATTOX, KARL R, AND STEWART, KENNETH D; *COMPARATIVE CYTOLOGICAL STUDIES IN THE GREEN ALGAE (DEB-7903554 A02)*; 12 MONTHS $25,473

ESHBAUGH, W H, AND GUTTMAN, SHELDON I; *SYSTEMATIC STUDIES IN THE GENUS CAPSICUM (SOLANACEAE) (DEB-7823389)*; 24 MONTHS $65,100

BHATTACHARJEE, J K; *SPECIAL SEMINAR (SMALL CONFERENCE) ON GENETICS AND REGULATION OF CARBOHYDRATE METABOLISM IN MICROORGANISMS; MIAMI, FLORIDA, MAY 1980 (PCM-7920497*)*; 12 MONTHS $400

KAPUSTKA, LAWRENCE A; *ASYMBIOTIC DINITROGEN FIXATION (DEB-8004172)*; 12 MONTHS $44,784

JARRETT, GARY W; *IMPACT OF SPATIAL PATTERNING ON ARTHROPOD POPULATIONS AND CROP PRODUCTIVITY (DEB-8004176)*; 24 MONTHS $61,003

OBERLIN COLLEGE

BENZING, DAVID H; *ECOLOGY AND ADAPTIVE BIOLOGY OF AN ATMOSPHERIC BROMELIAD (DEB-7728137 A02)*; 12 MONTHS $39,633

KNOLL, ANDREW H; *PALEOECOLOGY AND BIOSTRATIGRAPHY OF SOME LATE PRECAMBRIAN MICROFOSSIL ASSEMBLAGES (DEB-8004290*)*; 24 MONTHS $26,025

OHIO AGRICULTURAL RESEARCH & DEVELOPMENT CTR

GINGERY, ROY E, BRADFUTE, OSCAR E, GORDON, DONALD T, AND NAULT, LOWELL R; *CHARACTERIZATION OF THE MAIZE STRIPE VIRUS (PCM-7922663)*; 12 MONTHS $25,000

OHIO STATE UNIVERSITY

STUESSY, TOD F; *SYSTEMATICS OF THE SUBTRIBE MILLERIINAE (COMPOSITAE) (DEB-7520819 A04)*; $9,926

BERLINER, LAWRENCE J; *ROLE OF ALPHA-LACTALBUMIN IN LACTOSE BIOSYNTHESIS (PCM-7724658 A01)*; 12 MONTHS $40,000

RAGHAVAN, V; *EVOLUTIONARY TRENDS IN HOMOSPOROUS FERNS (DEB-7801297 A01)*; 36 MONTHS $61,597

GROSS, ELIZABETH L; *INTERACTIONS OF CHLOROPLAST MEMBRANE PROTEINS (PCM-7806969 A02)*; 12 MONTHS $30,000

GREENWALD, LEWIS I; *PHYSIOLOGY OF BUOYANCY REGULATION (PCM-7823624 A01)*; $3,000

TRIPLEHORN, CHARLES A; *BIOSYSTEMATICS AND BIOGEOGRAPHY OF ELEODES (DEB-7904950)*; 24 MONTHS $31,997

SERIF, GEORGE S; *FUCOSE SYNTHESIS AND UTILIZATION IN MAMMALIAN TISSUE (PCM-7911039)*; 12 MONTHS $24,000

LUSTICK, SHELDON I; *THERMOREGULATORY SIGNIFICANCE OF PIGMENT INTENSITY IN AVIAN ADAPTATIONS (DEB-7911759)*; 36 MONTHS $59,623

GAUNT, ABBOT S, AND GAUNT, SANDRA L; *COMPARATIVE SYRINGEAL FUNCTION (DEB-7911774*)*; 36 MONTHS $38,700

FLOYD, GARY L; *COMPARATIVE CYTOLOGY OF SELECTED CHLOROPHYTA (DEB-7911777)*; 12 MONTHS $28,467

REEVE, JOHN N; *DEVELOPMENT AND EXPRESSION OF BACTERIAL VIRUSES IN ANUCLEATE CELLS (PCM-7919019)*; 12 MONTHS $50,000

KIMBALL, PAUL C; *A MULTISTAGE MOLECULAR MODEL FOR NEOPLASTIC TRANSFORMATION IN RATS (PCM-7919097 A01)*; 12 MONTHS $48,211

TAYLOR, THOMAS N, AND MILLAY, MICHAEL A; *MORPHOLOGY AND EVOLUTION OF PALEOZOIC MARATTIALEAN FERNS (DEB-7915331)*; 12 MONTHS $29,951

TAYLOR, THOMAS N; *ULTRASTRUCTURE OF FOSSIL POLLEN AND SPORES (DEB-8001805)*; 12 MONTHS $49,363

DEAN, DONALD H; *MAINTENANCE OF THE BACILLUS GENETIC STOCK CENTER (DEB-8003886)*; 12 MONTHS $45,826

PAPPAS, PETER W; *CHARACTERIZATION OF TEGUMENTARY MEMBRANE-BOUND ENZYMES OF GASTROINTESTINAL PARASITES (PCM-8002442)*; 12 MONTHS $40,000

CRAWFORD, DANIEL J; *COLLABORATIVE RESEARCH ON A MONOGRAPHIC STUDY OF THE GENUS COREOPSIS (COMPOSITAE) (DEB-8011655)*; 12 MONTHS $33,297

BYERS, THOMAS J; *EEA, A DIFFERENTIATION ENHANCING FACTOR IN ACANTHAMOEBA: CHARACTERIZATION, SYNTHESIS, AND FATE (PCM-8011696)*; 12 MONTHS $27,748

STUESSY, TOD F; *WORKSHOPS IN LONG-RANGE PLANNING IN SYSTEMATICS: COLUMBUS, OH 6/11-13/80; NEW HAVEN, CT 6/18-20/80; PITTSBURGH, PA 6/25-27/80 (DEB-8016997)*; 12 MONTHS $33,135

OHIO UNIVERSITY

LLOYD, ROBERT M; *SYSTEMATIC RELATIONSHIPS AND MATING SYSTEM PARAMETERS IN FERNS (DEB-7905079 A01)*; 12 MONTHS $23,837

HIKIDA, ROBERT S; *AGE-RELATED CHANGES IN AVIAN NEUROMUSCULAR INTERACTIONS (PCM-7916540)*; 24 MONTHS $65,071

HIKIDA, ROBERT S, EDDS, LOUISE L, HOWELL, JOHN N, JOHNSON, PETER, AND JOLLICK, JOSEPH D; *A TRANSMISSION ELECTRON MICROSCOPE (PCM-7923510)*; 12 MONTHS $55,270

UNGAR, IRWIN A; *SEED DIMORPHISM AND SALT TOLERANCE IN A SALT MARSH COMMUNITY (DEB-7927236)*; 24 MONTHS $65,000

ROTHWELL, GAR W; *STUDIES OF ANATOMICALLY PRESERVED PLANTS FROM THE PENNSYLVANIAN OF EASTERN NORTH AMERICA (DEB-8010793)*; 24 MONTHS $80,000

UNIVERSITY OF CINCINNATI-COLLEGE OF MEDICINE

RUDNEY, HARRY; *BIOSYNTHESIS OF UBIQUINONE (PCM-7812124 A01)*; 12 MONTHS $60,865

UNIVERSITY OF CINCINNATI

BOBST, ALBERT M; *ENZYMATIC INCORPORATION OF FREE RADICALS INTO NUCLEIC ACIDS (PCM-7801979 A01)*; 12 MONTHS $35,000

CARUSO, JOHN L; *INFLUENCE OF VOLCANIC ASH ON GROWTH, DORMANCY AND IAA-ABA BALANCE IN WOODY PLANTS (PCM-8023470)*; 12 MONTHS $9,014

YOUNGSTOWN STATE UNIVERSITY

SCHROEDER, LAUREN A; *TRACKING OF SEASONAL CHANGES IN LEAF QUALITY BY LEPIDOPTERA (DEB-8003723)*; 24 MONTHS $37,758

OKLAHOMA

OKLAHOMA MEDICAL RESEARCH FOUNDATION

HARTSUCK, JEAN A; *CRYSTALLOGRAPHY OF MAMMALIAN ACID PROTEASES (PCM-7727337 A02)*; 12 MONTHS $35,000

OKLAHOMA STATE UNIVERSITY-AGRICULTURAL EXPERIMENT STATION

WALLER, GEORGE R; *ENZYMES INVOLVED IN CAFFEINE (ALKALOID) METABOLISM IN COFFEA SPECIES (PCM-7823160)*; 12 MONTHS $48,600

OKLAHOMA STATE UNIVERSITY

GHOLSON, ROBERT K; *BIOSYNTHESIS NICOTINAMIDE ADENINE DINUCLEOTIDE IN ESCHERICHIA AND LIVER MITOCHONDRIA (PCM-7718814 A01)*; 12 MONTHS $39,300

GHOLSON, ROBERT K; *BIOSYNTHESIS OF NICOTINAMIDE ADENINE DINUCLEOTIDE IN ESCHERICHIA COLI AND LIVER MITOCHONDRIA (PCM-7718814 A04)*; $9,102

SAUER, JOHN R; *PHYSIOLOGY OF SALT AND WATER BALANCE IN ACARINE SPECIES (PCM-7921715)*; 12 MONTHS $29,913

CARRAWAY, KERMIT L; *STRUCTURE, SHEDDING AND BIOSYNTHESIS OF A MUCIN-TYPE CELL SURFACE GLYCOPROTEIN (PCM-8002567)*; 12 MONTHS $17,600

OWNBY, JAMES D; *SHIFTS IN MESSENGER RIBONUCLEIC ACID SYNTHESIS DURING HETEROCYST DEVELOPMENT IN THE CYANOBACTERIUM ANABAENA VARIABILIS (PCM-8004298)*; 24 MONTHS $64,200

SCOTT, HUGH L; *THEORETICAL STUDIES OF LIPID BILAYERS: ANISOTROPIC HARD CORES AND APPLICATIONS TO COMPLEX SYSTEMS (PCM-8010854)*; 24 MONTHS $33,000

ECHELLE, ANTHONY A; *SYSTEMATICS OF A SPECIES FLOCK OF CHIROSTOMA FROM THE MEXICAN PLATEAU (DEB-8023839)*; 15 MONTHS $18,813

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

BEEVERS, LEONARD; *GLYCOPROTEIN BIOSYNTHESIS IN PISUM SATIVUM (PCM-7728273 A01)*; 13 MONTHS $42,000

HAINES, HOWARD B; *AUTOMATED GAMMA COUNTER (PCM-7924616)*; 12 MONTHS $25,000

SKVARLA, JOHN J; *POLLEN MORPHOLOGICAL STUDIES IN THE FAMILY ONAGRACEAE AND ORDER MYRTALES (DEB-8002585)*; 12 MONTHS $25,860

OREGON

OREGON STATE UNIVERSITY

CONTE, FRANK P; *EPITHELIAL PHYSIOLOGY OF A CRUSTACEAN LARVAL SALT GLAND (PCM-7814771 A04)*; 3 MONTHS $2,499

JOHNSON, W C; *CIRCULAR DICHROISM AND THE CONFORMATION OF SUGARS (PCM-7881554 A03)*; 12 MONTHS $50,000

CROMACK, KERMIT; *RESPONSE OF A CONIFEROUS FOREST ECOSYSTEM TO PERTURBATION (DEB-7708075 A03)*; $22,788

EVANS, HAROLD J; *BIOCHEMICAL AND PHYSIOLOGICAL LIMITATIONS OF NITROGEN FIXATION IN LEGUMES (PCM-7708784 A02)*; 12 MONTHS $82,200

MORRIS, JOHN E; *PROTEOGLYCANS OF THE DEVELOPING RETINA (PCM-7735419 A01)*; 24 MONTHS $70,000

LOOMIS, WALTER D; *BIOSYNTHESIS AND METABOLISM OF TERPENES (PCM-7736416 A09)*; 12 MONTHS $45,000

BAISTED, DEREK J; *METABOLISM OF STARCH LIPIDS DURING DEVELOPMENT AND GERMINATION OF CEREAL GRAINS (PCM-7818054)*; 24 MONTHS $61,000

QUATRANO, RALPH S; *BIOCHEMICAL AND CYTOLOGICAL STUDIES OF EARLY PLANT EMBRYOGENESIS (PCM-7820435 A01)*; 12 MONTHS $57,056

QUATRANO, RALPH S; *BIOCHEMICAL AND CYTOLOGICAL STUDIES OF EARLY PLANT EMBRYOGENESIS (PCM-7820435 A02)*; $5,714

BECKER, ROBERT R; *SEQUENCE, PHYLOGENY AND STRUCTURE OF INVERTEBRATE HEMOGLOBINS (PCM-7821784 A01)*; 12 MONTHS $50,000

TRAPPE, JAMES M, AND GORDON, JOHN C; *TEMPERATURE AND MOISTURE EFFECTS ON MYCORRHIZAE IN A DOUGLAS-FIR ECOSYSTEM (DEB-7824443 A01)*; 12 MONTHS $71,035

PARKS, LEO W; *FUNCTION OF STEROLS IN THE METABOLISM OF SACCHAROMYCES CEREVISIAE (PCM-7827809)*; 12 MONTHS $53,039

BISHOP, NORMAN I; *MUTATION ANALYSIS OF PARTIAL REACTIONS OF PHOTOSYNTHESIS (PCM-7910771)*; 12 MONTHS $61,800

CHAMBERS, KENTON L; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DER-7919653)*; 24 MONTHS $2,950

RYKER, LEE C, AND LIBBEY, LEONARD M; *CHEMOACOUSTIC STIMULI AND RESPONSES IN BARK BEETLES ON CONIFERS (PCM-7921708)*; 12 MONTHS $45,550

RICKSON, FRED R; *COMPARATIVE ANATOMY OF UNPROTECTED AND PROTECTED INDIVIDUALS OF BIXA ORELLANA IN COSTA RICA (DEB-7921761)*; 24 MONTHS $26,296

ZAERR, JOE B; *THE ROLE OF CYTOKININS AND GIBBERELLINS IN JUVENILITY IN DOUGLAS-FIR (PCM-7922986)*; 24 MONTHS $60,000

WARD, A K, AND CUMMINS, KENNETH W; *FUNCTION OF NOSTOC IN OREGON STREAMS (DEB-7923444*)*; 24 MONTHS $100,659

WARING, RICHARD H; *OPERATION OF THE H.J. ANDREWS EXPERIMENTAL FOREST AS A NATIONAL FIELD RESEARCH FACILITY (DEB-7925939)*; 12 MONTHS $335,351

ROGERS, THOMAS J; *THE ROLE OF PROSTAGLANDINS IN LYMPHOKINE SYNTHESIS (PCM-8003635)*; 24 MONTHS $90,000

SOLLINS, PHILLIP; *COARSE WOODY DEBRIS AND NITROGEN CYCLING IN NORTHWESTERN CONIFEROUS FORESTS AND STREAMS (DEB-8004452)*; 24 MONTHS $369,238

CONTE, FRANK P; *EPITHELIAL PHYSIOLOGY OF A CRUSTACEAN LARVAL SALT GLAND (PCM-8009430)*; 12 MONTHS $45,000

MOK, MACHTELD C; *HORMONAL METABOLISM IN RELATION TO ABNORMAL PLANT DEVELOPMENT (PCM-8010763)*; 24 MONTHS $40,000

WARING, RICHARD H; *DYNAMICS OF ECOSYSTEM PROCESSES AT THE ANDREWS EXPERIMENTAL FOREST, OREGON (DEB-8012162*)*; 12 MONTHS $187,067

ZOBEL, DONALD B; *SURVIVAL AND RECOVERY OF FOREST UNDERSTORY SPECIES FOLLOWING AERIAL DEPOSITION OF VOLCANIC ASH (DEB-8020846)*; 6 MONTHS $9,931

RUBEN, JOHN A; *VOLCANIC ASH INDUCED RESPIRATORY STRESS IN UPSTREAM MIGRATING SALMONID FISH (PCM-8022980)*; 12 MONTHS $9,066

FRANKLIN, JERRY F; *LOGISTICAL SUPPORT OF ECOLOGICAL RESEARCH IN VICINITY OF MOUNT ST. HELENS (DEB-8024471)*; 12 MONTHS $50,000

REED COLLEGE

STAFFORD, HELEN A; *THE METABOLISM AND REGULATION OF PROCYANIDIN ACCUMULATION IN HIGHER PLANTS (PCM-7920915)*; 12 MONTHS $46,054

UNIVERSITY OF OREGON HEALTH SCIENCES CENTER

KIESSLING, ANN A; *DNA POLYMERASES IN SPERM AND EARLY EMBRYOS (PCM-7725445 A01)*; 24 MONTHS $75,000

FAUST, CHARLES H; *IMMUNOGLOBULIN HEAVY CHAIN MRNA METABOLISM AND PROCESSING (PCM-7905041)*; 12 MONTHS $40,000

IGLEWSKI, WALLACE J; *STRUCTURE AND FUNCTION OF MUTANT ELONGATION FACTOR-2 (PCM-7913410)*; 24 MONTHS $80,000

KABAT, DAVID; *MOLECULAR GENETICS OF A PLASMA MEMBRANE GLYCOPROTEIN: MULV GP70 (PCM-7918972)*; 12 MONTHS $45,880

UNIVERSITY OF OREGON - EUGENE

SCHELLMAN, JOHN A; *SPECTROSCOPY OF ORIENTED BIOLOGICAL SYSTEMS (PCM-7930741 A02)*; 12 MONTHS $58,000

HARRIS, PATRICIA J; *ROLE OF MEMBRANES IN CHROMOSOME MOVEMENT (PCM-7930935 A02)*; $4,227

PETICOLAS, WARNER L; *RAMAN AND QUASI-ELASTIC LIGHT SCATTERING FROM BIOLOGICAL POLYMERS (PCM-7933222 A03)*; 12 MONTHS $45,000

CASTENHOLZ, RICHARD W; *ECOLOGY AND PHYSIOLOGY OF THE PHOTOSYNTHETIC MICROORGANISMS OF HOT SPRINGS (DEB-7809694 A02)*; 12 MONTHS $59,914

STAHL, FRANKLIN W; *GROWTH, MUTATION, AND RECOMBINATION IN BACTERIOPHAGE (PCM-7813207 A01)*; 12 MONTHS $75,400

STAHL, FRANKLIN W; *GROWTH, MUTATION, AND RECOMBINATION IN BACTERIOPHAGE (PCM-7813207 A02)*; 12 MONTHS $79,700

BRADSHAW, WILLIAM E; *BIOGEOGRAPHY OF THE PITCHER-PLANT MOSQUITO (DEB-7822799 A01)*; 12 MONTHS $34,000

GRIFFITH, O H; *PHOTOELECTRON MICROSCOPY OF PHOTOSYNTHETIC MEMBRANES (PCM-7911501 A01)*; 12 MONTHS $50,000

VON HIPPEL, PETER H; *MOLECULAR BIOLOGY SHARED INSTRUMENTATION (PCM-7922734)*; 12 MONTHS $50,000

BLOCH, WILL; *SUBUNIT INTERACTIONS IN ALKALINE PHOSPHATASE (PCM-7922754)*; 12 MONTHS $19,400

DAHLQUIST, FREDERICK W; *STRUCTURAL AND MECHANISTIC STUDIES OF CHEMOTAXIS PROTEINS IN E COLI (PCM-8004515)*; 24 MONTHS $76,000

CARROLL, GEORGE C; *WATER FLOWS & NITROGEN FLUXES THROUGH THE CANOPY OF A WESTERN CONIFEROUS FOREST (DEB-8007542)*; 18 MONTHS $250,000

BONNETT, HOWARD T; *NUCLEAR-CYTOPLASMIC HYBRIDIZATION AMONG THE SOLANACEAE (PCM-8011669)*; 24 MONTHS $30,000

TERWILLIGER, ROBERT C; *STRUCTURE AND FUNCTION OF INVERTEBRATE RESPIRATORY PIGMENTS (PCM-8012554)*; 24 MONTHS $64,000

MATTHEWS, BRIAN W; *STRUCTURE AND STABILITY OF THERMOLYSIN AND OTHER PROTEINS (PCM-8014311)*; 12 MONTHS $81,000

PENNSYLVANIA

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA

UZZELL, THOMAS M; *ESTIMATES OF AGES OF CLONAL VERTEBRATES BY STUDIES OF SERUM ALBUMIN AND OF MITOCHONDRIAL DNAS (DEB-7713472 A02)*; 12 MONTHS $45,796

DAVIS, GEORGE M; *SYSTEMATIC AND TAXONOMIC ANALYSES OF THE NORTH AMERICAN UNIONACEA (DEB-7801550 A02)*; 12 MONTHS $45,507

GILL, FRANK B; *PRESERVATION AND INCREASED AVAILABILITY OF A MAJOR ORNITHOLOGICAL COLLECTION (DEB-7818612 A01)*; 12 MONTHS $211,496

OTTE, DANIEL; *A COMPACTOR SYSTEM FOR ENTOMOLOGICAL COLLECTIONS (DEB-7910777 A01)*; 12 MONTHS $24,318

OTTE, DANIEL; *NORTH AMERICAN GRASSHOPPER SPECIES: A SYSTEMATIC GUIDE (DEB-7910778 A01)*; 12 MONTHS $32,073

GOULDEN, CLYDE E, SPOLSKY, CHRISTINA M, AND SELLNER, KEVIN G; *ACQUISITION OF A MULTI-USER LIQUID SCINTILLATION COUNTER (DEB-7920291)*; 12 MONTHS $18,450

BOTT, THOMAS L; *DISSOLVED ORGANIC MATTER UTILIZATION AND BACTERIAL PRODUCTIVITY IN A STREAM SYSTEM (DEB-7921963)*; 12 MONTHS $80,815

DAVIS, GEORGE M, AND ROBERTSON, ROBERT; *CURATION, IMPROVEMENT AND SERVICE FUNCTIONS OF A MAJOR COLLECTION OF RECENT MOLLUSCA (DEB-8001822)*; 12 MONTHS $38,229

BOHLKE, JAMES E; *SUPPORT OF THE ACADEMY'S FISH COLLECTION (DEB-8003905)*; 12 MONTHS $46,153

HIRSHFIELD, MICHAEL F, AND REZNICK, DAVID N; *EFFECTS OF PREDATION ON LIFE HISTORY EVOLUTION (DEB-8017011)*; 30 MONTHS $85,000

CARNEGIE INSTITUTE

UTECH, FREDERICK H; *REORGANIZATION AND UPDATING OF THE VASCULAR PLANT COLLECTION OF CARNEGIE MUSEUM OF NATURAL HISTORY (DEB-8005268)*; 12 MONTHS $50,000

DAWSON, MARY R; *SUPPORT FOR THE VERTEBRATE PALEONTOLOGICAL COLLECTIONS (DEB-8008989)*; 24 MONTHS $100,001

EKIS, GINTER; *NATURAL HISTORY AND CLASSIFICATION OF THE CLEROIDEA (DEB-8012151)*; 24 MONTHS $37,460

CARNEGIE-MELLON UNIVERSITY

JARVIK, JONATHAN W; *GENE CONTROL OF FLAGELLAR ASSEMBLY IN CHLAMYDOMONAS (PCM-7823253 A01)*; 12 MONTHS $50,000

HO, CHIEN; *STRUCTURE FUNCTION RELATIONSHIPS IN BIOLOGICAL SYSTEMS (PCM-7825818 A01)*; 12 MONTHS $45,000

BROWN, WILLIAM E; *INTERACTIONS OF DEOXY-HEMOGLOBIN-S MOLECULES (PCM-8003869)*; 24 MONTHS $60,000

DREXEL UNIVERSITY

MCCRAY, JAMES A, AND KIHARA, TORU; *LASER-INDUCED PHOTOLYSIS AND SUBSTRATE BINDING STUDIES ON NITROGENASE COMPONENT PROTEINS (PCM-7632578 A01)*; $6,000

DUQUESNE UNIVERSITY

CASTRIC, PETER A; *SECONDARY METABOLISM IN PSEUDOMONAS AERUGINOSA (PCM-7724117 A02)*; 12 MONTHS $32,000

PISZKIEWICZ, DENNIS; *THE STRUCTURE OF THE REGULATORY PROTEIN ATP-PHOSPHORIBOSYLTRANSFERASE (PCM-7900594 A01)*; 24 MONTHS $60,000

HAVERFORD COLLEGE

KESSLER, DIETRICH; *REGULATION OF CELL MOTILITY (PCM-8016890)*; 12 MONTHS $50,000

INSTITUTE FOR CANCER RESEARCH

PERRY, ROBERT P; *SYNTHESIS, ORGANIZATION AND FUNCTION OF RIBONUCLEIC ACID (PCM-7706539 A03)*; $10,000

BAYER, MANFRED E; *STRUCTURAL AND FUNCTIONAL ORGANIZATION OF BACTERIAL AND VIRAL SURFACES (PCM-7813637 A01)*; 12 MONTHS $38,000

MILDVAN, ALBERT S; *MECHANISMS OF METAL ACTIVATED AND METALLOENZYMES (PCM-7923154)*; 12 MONTHS $64,000

WEEKS, DONALD P; *REGULATION OF TUBULIN SYNTHESIS IN CHLAMYDOMONAS REINHARDI (PCM-8003438)*; 12 MONTHS $70,000

PERRY, ROBERT P; *SYNTHESIS, ORGANIZATION AND FUNCTION OF RIBONUCLEIC ACID (PCM-8010972)*; 12 MONTHS $125,000

LEHIGH UNIVERSITY

CHENG, THOMAS C; *SURFACE RECOGNITION BY MOLLUSCAN PHAGOCYTES (PCM-7723785 A02)*; 12 MONTHS $36,565

MONELL CHEMICAL SENSES CENTER

EPPLE, GISELA, AND KATZ, YAIR; *HORMONAL AND PHEROMONAL CONTROL OF DEVELOPMENT (BNS-7806172 A02*)*; 12 MONTHS $35,125

SMITH, AMOS B, AND EPPLE, GISELA; *CHEMICAL COMMUNICATION IN A PRIMATE: A CHEMICAL AND BEHAVIORAL STUDY (BNS-7819875 A01*)*; 12 MONTHS $29,474

MPC CORPORATION

KELLEY, WILLIAM S, AND HENDRIX, ROGER W; *ESTABLISHMENT OF A CENTRALIZED FERMENTATION FACILITY (PCM-7922261)*; 12 MONTHS $113,574

PENNSYLVANIA STATE UNIVERSITY-HERSHEY MEDICAL CENTER

LANOUE, KATHRYN F; *MACRO- AND MICRO- COMPARTMENTATION IN METABOLIC CONTROL (PCM-7823163 A01)*; 12 MONTHS $36,587

HOPPER, ANITA K; *CONTROL OF YEAST MEIOSIS AND SPORE FORMATION BY THE MATINGTYPE GENES (PCM-8009511*)*; 12 MONTHS $32,551

HOPPER, ANITA K; *CONTROL OF YEAST MEIOSIS AND SPORE FORMATION BY THE MATING-TYPE GENES (PCM-8009511 A01)*; $8,272

PENNSYLVANIA STATE UNIVERSITY

PEARSON, DAVID L; *THE ROLE OF COMPETITION IN INSECT COMMUNITY STRUCTURE (DEB-7803172 A03)*; $5,499

BENKOVIC, STEPHEN J; *FOLIC ACID MECHANISMS (PCM-7803847 A02)*; 12 MONTHS $40,000

DUNSON, WILLIAM A; *IONIC REGULATION IN MARINE REPTILES (PCM-7806113 A02)*; 12 MONTHS $28,300

VILLAFRANCA, JOSEPH J; *STRUCTURE, FUNCTION AND CONTROL OF ATP UTILIZING ENZYMES (PCM-7807845 A02)*; 12 MONTHS $35,000

ARONSON, NATHAN N; *MEMBRANE LECTINS IN THE FUSION OF LYSOSOMES AND PINOCYTIC VESICLES (PCM-7904912)*; 24 MONTHS $50,000

DUNSON, WILLIAM A; *PHYSIOLOGICAL ECOLOGY OF SEA SNAKES OF THE SAHUL SHELF (PCM-7918393)*; 24 MONTHS $48,600

WEDLER, FREDERICK C; *GLUTAMINE SYNTHETASE: REGULATION AND THERMOSTABILITY (PCM-7924481)*; 12 MONTHS $32,000

TEMPLE UNIVERSITY-SCHOOL OF MEDICINE

SUHADOLNIK, ROBERT J; *FORMATION AND FUNCTION OF SELECT NUCLEOSIDES AS BIOCHEMICAL PROBES OF MACROMOLECULAR REACTIONS (PCM-7724287 A02)*; 12 MONTHS $42,300

LITWACK, GERALD; *MODULATOR AND THE GLUCOCORTICOID RECEPTOR (PCM-7825767 A01)*; 12 MONTHS $64,701

HIGGINS, MICHAEL L, AND SHOCKMAN, GERALD D; *SCANNING-TRANSMISSION ELECTRON MICROSCOPE (PCM-7912177)*; 12 MONTHS $133,000

BRENNER, MICHAEL; *OSCILLATORY SYNTHESIS OF CAMP IN DICTYOSTELIUM DISCOIDEUM (PCM-8024353)*; 5 MONTHS $13,200

TEMPLE UNIVERSITY

SIROVER, MICHAEL A; *METAL INDUCTION OF DNA REPAIR IN HUMAN FIBROBLASTS (PCM-7720183 A01)*; 12 MONTHS $40,000

BINKLEY, SUE A; *PINEAL FUNCTION (PCM-7726474 A02)*; 12 MONTHS $36,200

GOLDBERG, RICHARD B; *REGULATION OF NITROGEN FIXATION AND OTHER ENZYMES OF NITROGEN ASSIMILATION (PCM-7922122)*; 24 MONTHS $90,000

WEISENBERG, RICHARD C; *MICROTUBULE POLYMERIZATION IN VITRO (PCM-7923870)*; 12 MONTHS $40,000

HOOBER, JOHN K; *BIOGENESIS OF CELLULAR MEMBRANES (PCM-8007283)*; 24 MONTHS $70,000

THOMAS JEFFERSON UNIVERSITY-THOMAS JEFFERSON MEDICAL COLLEGE

KAJI, HIDEKO; *REGULATION OF PROTEIN SYNTHESIS (PCM-7613739 A01)*; $5,000

PANOS, CHARLES; *MICROBIAL MEMBRANE LIPID COMPONENTS AND THEIR PHYSIOLOGY (PCM-7717787 A02*)*; 12 MONTHS $30,000

SHERWIN, JOSEPH R, AND FLYNN, JOHN T; *REGULATION OF ENDOCRINE ORGAN BLOOD FLOW (PCM-7823375 A01)*; 12 MONTHS $35,600

BUTLER, THOMAS M; *ACQUISITION OF A MULTI-USER LIQUID CHROMATOGRAPH (PCM-7912618)*; 12 MONTHS $30,000

UNIVERSITY OF PENNSYLVANIA-SCHOOL OF MEDICINE

NEMETH, ANDREW M; *DEVELOPMENT AND INDUCTION OF MICROSOMAL ENZYMES (PCM-7723391 A02)*; 12 MONTHS $28,000

ADAR, FRANCES; *RESONANCE RAMAN SPECTROSCOPY OF BIOLOGICAL CHROMOPHORES (PCM-7807954 A01)*; 12 MONTHS $31,000

COHN, MILDRED; *MECHANISM OF PHOSPHATE TRANSFER REACTION (PCM-7813633 A02)*; 12 MONTHS $35,000

OHNISHI, TOMOKO; *ELECTRON AND PROTON TRANSFER IN SUCCINATE-CYT. C REDUCTASE SEGMENT OF THE RESPIRATORY CHAIN (PCM-7816779 A01)*; 12 MONTHS $67,784

DUTTON, PETER L; *PHYSICAL, CHEMICAL AND STRUCTURAL ASPECTS OF EARLY EVENTS IN BACTERIAL PHOTOSYNTHESIS (PCM-7909041 A01)*; 12 MONTHS $60,207

NASS, MARGIT M; *PROBES OF THE ORIGIN OF MITOCHONDRIAL DNA REPLICATION (PCM-7922653)*; 24 MONTHS $88,000

KENNETT, ROGER H; *CELL BIOLOGY EXAMINING HUMAN GENE REGULATION (PCM-7926757)*; 12 MONTHS $175,000

UNIVERSITY OF PENNSYLVANIA-SCHOOL OF VETERINARY MEDICINE

WOLF, BENJAMIN; *REGULATION OF LATENT AND NOMINAL ALLOTYPES (PCM-8013043)*; 12 MONTHS $50,770

UNIVERSITY OF PENNSYLVANIA

TILNEY, LEWIS G; *PATTERN GENERATION AND MOTILITY OF ACTIN FILAMENTS IN NONMUSCLE CELLS (PCM-7704495 A03)*; $11,546

TELFER, WILLIAM H, AND WOODRUFF, RICHARD; *PHYSIOLOGY OF OOGENESIS IN AN INSECT (PCM-7716455 A02)*; 24 MONTHS $100,000

RICKLEFS, ROBERT E; *OPTIMIZATION, CONSTRAINT, AND COMPROMISE IN AVIAN POSTNATAL DEVELOPMENT (DEB-7727071 A02)*; 12 MONTHS $39,999

SCHULTZ, RICHARD M; *RIBOSOME SYNTHESIS AND FUNCTION DURING OOCYTE GROWTH (PCM-7903973 A01)*; 12 MONTHS $45,000

BONNER, WALTER D; *THE MOLECULAR BASIS OF ENERGY TRANSFER IN HIGHER AND LOWER PLANTS (PCM-7914596)*; 12 MONTHS $80,000

DODSON, PETER; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-7918490)*; 24 MONTHS $4,680

PRINCE, ROGER C; *STRUCTURE AND FUNCTIONS OF THE MEMBRANE ASSOCIATED UBIQUINONE-CYTOCHROME B-C2 OXIDOREDUCTASE; ITS ISOLATION AND PHYSICAL PROPERTIES (PCM-7918598)*; 12 MONTHS $40,000

MELBIN, JULIUS; *COMPUTER FACILITY (PCM-7922696)*; 12 MONTHS $13,800

YONETANI, TAKASHI; *HEME ENZYMES: STRUCTURE, MECHANISM AND FUNCTION (PCM-7922841)*; 12 MONTHS $65,000

VANDERKOOI, JANE; *MOTION OF CYTOCHROME C DURING ELECTRON TRANSFER (PCM-8003125)*; 12 MONTHS $70,000

KALLENBACH, NEVILLE R; *H-EXCHANGE AND LIGANDING REACTION AS PROBES OF STRUCTURE AND STRUCTURAL FLUCTUATIONS IN NUCLEIC ACIDS (PCM-8004043)*; 12 MONTHS $58,000

GOULDEN, CLYDE E; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8008918)*; 12 MONTHS $3,730

ERICKSON, RALPH O; *GROWTH AND DEVELOPMENT OF HIGHER PLANTS (PCM-8011346)*; 12 MONTHS $39,000

JANZEN, DANIEL H; *IMPACT OF HERBIVORY ON LOCAL DENSITY AND DISTRIBUTION OF DECIDUOUS FOREST TREES (DEB-8011558)*; 12 MONTHS $79,984

ZIGMOND, SALLY H; *MODULATION OF THE CHEMOTACTIC PEPTIDE RECEPTOR OF PMNS (PCM-8018585)*; 12 MONTHS $45,000

CEBRA, JOHN J; *MOLECULAR BASES FOR SPECIFIC ANTIBODY AND LYMPHOCYTE REACTIVITIES (PCM-8020524)*; 12 MONTHS $69,000

UNIVERSITY OF PITTSBURGH-SCHOOL OF MEDICINE

DE GROAT, WILLIAM C; *AUTONOMIC CONTROL OF URINARY BLADDER AND LARGE INTESTINE (PCM-7906093 A01)*; 12 MONTHS $82,994

HOPPER, SARAH P; *RIBONUCLEOTIDE REDUCTASE OF RABBIT BONE MARROW (PCM-7923540)*; 12 MONTHS $64,600

FRIED, VICTOR A; *BIOGENESIS AND ASSEMBLY OF THE LAC PERMEASSE OF E. COLI (PCM-8011740)*; 12 MONTHS $40,000

UNIVERSITY OF PITTSBURGH

CAMPBELL, IAIN M; *SECONDARY METABOLISM IN PENICILLIUM (PCM-7803852 A01)*; 12 MONTHS $56,000

SUSSMAN, MAURICE; *CELL CONTACT AND CYTODIFFERENTIATION IN DICTYOSTELIUM (PCM-7905837 A01)*; 12 MONTHS $63,577

HENDRIX, ROGER W; *ASSEMBLY OF BACTERIOPHAGE LAMBDA TAILS (PCM-7910461)*; 12 MONTHS $30,000

GOTTLIEB, FREDERICK J; *MECHANISMS OF SYMBIONT-HOST RECOGNITION (PCM-7912062 A01)*; 12 MONTHS $76,466

CHAY, TERESA R; *METASTABILITIES AND OSCILLATORY PHENOMENA IN MEMBRANES AND CELLULAR SYSTEMS (PCM-7924483)*; 12 MONTHS $38,000

FRANZEN, JAMES S; *STRUCTURE-FUNCTION RELATIONS IN UDP-GLUCOSE DEHYDROGENASE (PCM-8011711)*; 12 MONTHS $46,000

WISTAR INSTITUTE

SOLTER, DAVOR; *ROLE OF CELL SURFACE ANTIGENS IN MAMMALIAN DEVELOPMENT (PCM-7816177 A02)*; 12 MONTHS $55,000

RHODE ISLAND

BROWN UNIVERSITY

ROTHMAN, FRANK G; *MECHANISM OF CELL DIFFERENTIATION IN DICTYOSTELIUM DISCOIDEUM (PCM-7804770 A02)*; 15 MONTHS $51,262

CANE, DAVID E; *ISOPRENOID BIOSYNTHESIS (PCM-7813290 A01)*; 12 MONTHS $43,370

COLEMAN, JOHN R; *CELL DIFFERENTIATION: ANALYSIS BY CELL RECONSTITUTION (PCM-7816134 A02)*; 12 MONTHS $60,000

JACKSON, DONALD C; *RESPIRATORY CONTROL AND ACID-BASE HOMEOSTASIS IN ECTOTHERMIC VERTEBRATES (PCM-7905533 A01)*; 12 MONTHS $58,942

GOLDSTEIN, LEON; *RENAL AMMONIA METABOLISM IN FISH (PCM-7911476)*; 12 MONTHS $22,900

COLEMAN, ANNETTE W; *FUNCTIONAL ORGANIZATION OF CHLOROPLAST DNA (PCM-7903864)*; 12 MONTHS $46,865

MILLER, KENNETH R; *FREEZE-ETCH EQUIPMENT (PCM-7918961)*; 12 MONTHS $42,893

FAUSTO-STERLING, ANNE; *CELLULAR ADHESIVITY AND THE DETERMINED STATE IN IMAGINAL DISC CELLS OF D MELANOGASTER (PCM-7914963)*; 12 MONTHS $55,000

WAAGE, JONATHAN K; *BEHAVIORAL STRATEGIES IN GENETIC TRANSMISSION IN ODONATA (DEB-8004191*)*; 12 MONTHS $13,000

MORSE, DOUGLASS H; *FORAGING ECOLOGY (DEB-8008502)*; 7 MONTHS $21,786

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER; *GORDON RESEARCH CONFERENCE, FEBRUARY 4-29, 1980, SANTA BARBARA, CALIFORNIA (PCM-7921032*)*; 12 MONTHS $8,000

CRUICKSHANK, ALEXANDER; *GORDON RESEARCH CONFERENCES, KINGSTON, RHODE ISLAND, JUNE 9-18, 1980 (PCM-8016787*)*; 12 MONTHS $59,330

CRUICKSHANK, ALEXANDER; *GORDON RESEARCH CONFERENCES, KINGSTON, RHODE ISLAND, JUNE 9-18, 1980 (PCM 8016787 A01)*; $1,500

UNIVERSITY OF RHODE ISLAND

HAIRSTON, NELSON G; *COPEPOD RESTING EGGS AS A PREDATOR AVOIDANCE MECHANISM (DEB-8010678)*; 24 MONTHS $59,300

SOUTH CAROLINA

CLEMSON UNIVERSITY

WHEELER, ALFRED P; *COLLABORATIVE RESEARCH ON CARBONATE CALCIFICATION: COMPARATIVE STUDIES OF UNIFYING MECHANISMS (PCM-7916387 A01)*; 12 MONTHS $21,483

MEDICAL UNIVERSITY OF SOUTH CAROLINA

WANG, AN-CHUAN; *MOLECULAR ASPECTS OF B CELL DIFFERENTIATION (PCM-7924043)*; 24 MONTHS $75,000

LEDBETTER, JOHN W; *DYNAMIC COMPLEXES OF ASPARTATE AMINOTRANSFERASE (PCM-8003470)*; 12 MONTHS $63,000

CHENG, THOMAS C; *SURFACE RECOGNITION BY MOLLUSCAN PHAGOCYTES (PCM-8020084)*; 24 MONTHS $33,200

UNIVERSITY OF GEORGIA-SAVANNAH RIVER ECOLOGY LABORATORY

GIBBONS, J W; *THE INFLUENCE OF ENVIRONMENTAL FACTORS OF LIFE HISTORY CHARACTERISTICS (DEB-7904758)*; 12 MONTHS $27,264

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

SODETZ, JAMES M; *INTERACTION OF CLOTTING FACTORS (PCM-7903281 A01)*; 12 MONTHS $23,013

DAWSON, JOHN H; *SPECTROSCOPIC STUDIES OF CYTOCHROME P-450 (PCM-7911518 A01)*; 12 MONTHS $25,000

ELY, BERT E; *GENETIC ANALYSIS OF DIFFERENTIATION IN CAULOBACTER CRESCENTUS (PCM-8003729)*; 12 MONTHS $50,000

VERNBERG, F JOHN; *DYNAMICS OF A SOUTHEASTERN COASTAL ESTUARY ECOSYSTEM (DEB-8004275)*; 20 MONTHS $299,900

VERNBERG, F JOHN; *SUPPORT FOR BARUCH FIELD LABORATORY AS A NATIONAL RESEARCH FACILITY (DEB-8006375)*; 12 MONTHS $165,000

SAWYER, ROGER H; *CHORIONIC EPITHELIUM AND THE SCALELESS MUTANT CHICKEN (PCM-8011745)*; 12 MONTHS $60,000

VERNBERG, F JOHN; *ECOLOGICAL PATTERNS AND PROCESSES IN THE NORTH INLET ESTUARY, SOUTH CAROLINA (DEB-8012165*)*; 12 MONTHS $202,000

SOUTH DAKOTA

AUGUSTANA COLLEGE

TIESZEN, LARRY L; *ECOLOGICAL SIGNIFICANCE OF PHOTOSYNTHETIC SYSTEMS (DEB-7819552 A03)*; 12 MONTHS $71,920

BLACK HILLS STATE COLLEGE

THOMASSON, JOSEPH R; *TAXONOMIC AND BIOSTRATIGRAPHIC STUDIES OF FOSSIL GRASSES AND PLANTS FROM NEBRASKA (DEB-7909150 A01)*; 24 MONTHS $46,306

TENNESSEE

DEPARTMENT OF ENERGY-OAK RIDGE OPERATIONS OFFICE

SHUGART, H H, AND WEST, DARRELL; *A WORKSHOP ON FOREST SUCCESSION; OAK RIDGE, TENNESSEE, JUNE, 1980 (DEB-8012840)*; 12 MONTHS $10,000

EAST TENNESSEE STATE UNIVERSITY

ERNST-FONBERG, MARYLOU; *ENZYMES INVOLVED IN THE BIOSYNTHESIS OF MEMBRANES (PCM-7904067 A01)*; 12 MONTHS $40,000

NELSON, DIANE R; *THIRD INTERNATIONAL SYMPOSIUM ON THE TARDIGRADA-AUGUST 3-6, 1980, JOHNSON CITY, TENNESSEE (DEB-7923441)*; 12 MONTHS $11,547

MC DANIEL, MILDRED C; *CHARACTERIZATION OF TUMORICIDAL MACROPHAGE MEDIATORS (PCM-8007849)*; 12 MONTHS $41,646

OAK RIDGE NATIONAL LABORATORY

KOEHLER, WALLACE C, AND HENDRICKS, ROBERT W; *CONSTRUCTION AND OPERATION OF A NATIONAL USER-ORIENTED SMALL-ANGLE NEUTRON SCATTERING FACILITY (DMR-7716459 A05*)*; $49,500

SHUGART, H H, AND GARDNER, R H; *EXTENDING SYSTEMS ANALYSIS IN ECOLOGY (DEB-7719791 A05)*; 12 MONTHS $446,930

VAN HOOK, ROBERT, AND OLSON, JERRY S; *THE ROLE OF TERRESTRIAL ECOSYSTEMS CLIMATIC CHANGE IN THE GLOBAL CARBON CYCLE (DEB-7716722 A05)*; 12 MONTHS $496,145

ELWOOD, J W; *MATERIAL SPIRALLING IN STREAM ECOSYSTEMS (DEB-7908912 A01)*; 12 MONTHS $987,716

UNIVERSITY OF TENNESSEE AT KNOXVILLE

OLINS, ADA L; *CHROMATIN ULTRASTRUCTURE (PCM-7721439 A02)*; 12 MONTHS $50,000

WALNE, PATRICIA L; *BIOSYSTEMATICS OF EUTLENOID FLAGELLATES (DEB-7920210 A01)*; 12 MONTHS $37,225

HANDEL, MARY A; *STERILE MOUSE MUTANTS: SERTOLI AND GERM CELL FUNCTION (PCM-7904408 A01)*; 12 MONTHS $42,038

JOSHI, JAYANT G, AND SWENSON, PAUL A; *BIOCHEMICAL BASIS OF RADIATION CELL DEATH (PCM-7908417)*; 24 MONTHS $64,990

HARTMAN, FRED C; *DESIGN OF NEW AFFINITY LABELS FOR RIBULOSEBISPHOSPHATE CARBOXYLASE-OXYGENASE (PCM-7908990)*; 24 MONTHS $44,000

JEON, KWANG W; *ENDOSYMBIOSIS AND ORIGIN OF EUKARYOTIC CELL ORGANELLES (PCM-7921969)*; 12 MONTHS $35,000

SHARP, AARON J; *AN ILLUSTRATED MANUAL OF MEXICAN MOSSES (DEB-7923539)*; 24 MONTHS $59,818

FUJIMURA, ROBERT K; *CONFERENCE ON DNA-MULTIPROTEIN INTERACTIONS IN TRANSCRIPTION, REPLICATION, AND REPAIR; GATLINBERG, TENNESSEE, MARCH 1980 (PCM-8000282)*; 6 MONTHS $3,400

RIECHERT, SUSAN E; *GENETIC AND EVOLUTIONARY EFFECTS OF COMPETITIVE INTERACTIONS (DEB-8001882)*; 12 MONTHS $35,000

JEON, KWANG W; *MULTI-USER APPLICATION FOR AN ULTRA [illegible] FUGE (PCM-8003229)*; 12 MONTHS $20,580

DELCOURT, PAUL A, AND DELCOURT, HAZEL R; *FOREST MAPPING ACROSS EASTERN NORTH AMERICA FROM 20,000-YEAR BP TO PRESENT (DEB-8004163)*; 12 MONTHS $74,965

WHITESIDE, MELBOURNE C; *COMMUNITY DYNAMICS OF LITTORAL MICRO-FAUNA (DEB-8011609)*; 24 MONTHS $49,795

UNIVERSITY OF TENNESSEE CENTER FOR HEALTH SCS

SHARMA, RAMESHWAR K; *REGULATION OF STEROIDOGENESIS (PCM-7909880 A01)*; 12 MONTHS $43,778

LAW, PETER K; *DEVELOPMENTAL ELECTROPHYSIOLOGY OF NORMAL AND DYSTROPHIC MOUSE MYOFIBERS (PCM-7921008 A01)*; 12 MONTHS $37,200

KANE, JAMES F; *AN AMIDOTRANSFERASE INVOLVED IN NITROGEN METABOLISM (PCM-7921631)*; 12 MONTHS $40,000

SHARMA, RAMESHWAR K; *REGULATION OF STEROIDOGENESIS (PCM-8004790)*; 12 MONTHS $50,000

VANDERBILT UNIVERSITY-SCHOOL OF MEDICINE

HARSHMAN, SIDNEY; *ALPHA TOXIN: CHEMISTRY AND ACTION ON MEMBRANES (PCM-7719307 A01)*; 24 MONTHS $70,000

MOYER, RICHARD W; *GENE REGULATION OF MAMMALIAN DNA VIRUSES (PCM-7823235 A01)*; 12 MONTHS $50,000

VANDERBILT UNIVERSITY

TOUSTER, OSCAR; *GLUCURONIDASE AND THE BIOSYNTHESIS OF LYSOSOMES (PCM-7624263 A03)*; $50,000

FRIEDMAN, DANIEL L; *CYCLIC AMP AND PROTEIN PHOSPHORYLATION IN THE MAMMALIAN CELL DIVISION CYCLE (PCM-7908024 A02)*; 12 MONTHS $44,000

BIBRING, THOMAS; *CONTROL OF DIVERSITY IN MICROTUBULE SYSTEMS (PCM-7903329 A01)*; 12 MONTHS $58,000

LESTOURGEON, WALLACE M; *NUCLEAR HNRNP PARTICLES IN THE MATURATION OF MRNA (PCM-7903329 A01)*; 12 MONTHS $60,000

SEAVER, SALLY S; *HORMONAL REGULATION OF GENE EXPRESSION (PCM-7919025)*; 12 MONTHS $66,500

DI SABATO, GIOVANNI; *STUDIES ON THE MECHANISM OF ACTION OF THYMOCYTE STIMULATING FACTOR (PCM-8011018)*; 12 MONTHS $50,000

TEXAS

BAYLOR COLLEGE OF MEDICINE

WAKIL, SALIH J; *METABOLISM AND CONTROL OF FATTY ACIDS (PCM-7700969 A02)*; 12 MONTHS $38,000

BARNES, EUGENE M; *TRANSPORT OF AMMONIA BY NITROGEN-FIXING BACTERIA (PCM-7727035 A02)*; 12 MONTHS $27,500

WRAY, G; *STRUCTURE OF METAPHASE CHROMOSOMES (PCM-7905439 A01)*; 12 MONTHS $100,000

HARDIN-SIMMONS UNIVERSITY

ADAMS, ROBERT P; *CHEMOSYSTEMATIC STUDIES IN JUNIPERUS (DEB-7921757)*; 24 MONTHS $55,000

NORTH TEXAS STATE UNIVERSITY

STEWART, KENNETH W; *LARVAE OF NORTH AMERICAN STONEFLY GENERA (DEB-7813545 A02)*; 12 MONTHS $37,932

RICE UNIVERSITY

HARCOMBE, P A; *DEMOGRAPHIC ANALYSIS OF TREE POPULATIONS (DEB-7923150)*; 12 MONTHS $37,339

MATTHEWS, KATHLEEN S; *CHEMICAL STUDIES OF LAC REPRESSOR PROTEIN AND OPERATOR DNA* (PCM-8019563; 12 MONTHS $40,000

SOUTHERN METHODIST UNIVERSITY

BUCHANAN, CHRISTINE E; *PENICILLIN-BINDING PROTEINS IN BACTERIAL CELL MEMBRANES* (PCM-7910473; 37 MONTHS $49,332

SOUTHWEST FOUNDATION FOR RESEARCH & EDUCATION

GORELIC, LESTER S; *PHOTOCHEMICAL PROBES OF PROTEIN-NUCLEIC ACID INTERACTIONS* (PCM-7912060*; 12 MONTHS $31,000

TEXAS A & M UNIVERSITY

DEMICHELE, DON W; *THE PHYSIOLOGY OF PRIMARY PRODUCTION AS APPLICABLE TO ECOSYSTEM SIMULATION* (DEB-7714796 A02; 12 MONTHS $100,756

BENEDICT, CHAUNCEY R; *THE REGULATION OF RUBBER FORMATION IN GUAYULE PARTHENIUM AGARENTATUM PLANTS* (PFR-7904650 A01*; 12 MONTHS $20,000

BICKHAM, JOHN W, AND DIXON, JAMES R; *CHROMOSOMAL STUDIES OF PLATEMYS* (DEB-7915159; 12 MONTHS $20,000

RIZZO, PETER J; *HISTONE OCCURRENCE AND CHROMATIN STRUCTURE IN PERIDINIUM BALTICUM* (PCM-7911708; 24 MONTHS $80,000

FRYXELL, GRETA A; *EVOLUTIONARY PATTERNS IN THE DIATOM GENUS THALASSIOSIRA* (DEB-7902159; 24 MONTHS $74,257

WORMUTH, JOHN; *A STUDY OF FEEDING RELATIONSHIPS IN TUNA AND PORPOISE THROUGH THE APPLICATION OF CEPHALOPOD BEAK ANALYSIS* (DAR-7914779*; 24 MONTHS $15,801

CRIPPEN, GORDON M, AND KUNTZ, IRWIN D; *CALCULATION OF CONFORMATION BY A DISTANCE GEOMETRY APPROACH* (PCM-8000080; 12 MONTHS $22,300

TEXAS CHRISTIAN UNIVERSITY

FERGUSON, GARY W; *ADAPTATION TO SEASONAL FOOD SHORTAGE AND PREDATION IN SOME LOWER VERTEBRATES* (DEB-7905133 A01; 12 MONTHS $27,972

BRUN, RUDOLF B; *DEVELOPMENTAL MECHANISMS IN EYE FORMATION* (PCM-8005373; 24 MONTHS $74,974

TEXAS TECH UNIVERSITY

KNAFF, DAVID B; *ELECTRON FLOW IN PHOTOSYNTHETIC ORGANISMS* (PCM-7917304 A02; 12 MONTHS $30,000

SONG, PILL-SOON; *PRIMARY MOLECULAR PROCESSES OF PHYTOCHROME* (PCM-7906806 A01; 12 MONTHS $29,000

BAKER, ROBERT J; *CHROMOSOMAL STUDIES OF PHYLLOSTOMATIDAE* (DEB-8004393; 24 MONTHS $60,000

NORTHINGTON, DAVID K; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY* (DEB-8009064; 24 MONTHS $4,865

UNIV OF TEXAS AT AUSTIN-MARINE SCIENCE INSTITUTE AT PORT ARANSAS

CAMERON, JAMES N; *ACID-BASE REGULATION IN POIKILOTHERMS* (PCM-7714958 A02; 12 MONTHS $23,528

UNIV OF TEXAS AT AUSTIN

FOX, J L; *STRUCTURE OF C-PHYCOCYANIN* (PCM-7717892 A01; 6 MONTHS $9,000

KITTO, G BARRIE, AND BUSH, GUY L; *A BIOCHEMICAL AND IMMUNOLOGICAL STUDY OF THE TEPHRITIDAE* (DEB-7903145 A02; 12 MONTHS $67,759

WALKER, JAMES B; *REGULATION OF BACTERIAL CELL DIVISION* (PCM-7907908 A02; 12 MONTHS $45,000

HARDESTY, BOYD A; *THE MECHANISM BY WHICH RIBOSOMES FORM PEPTIDES* (PCM-7913602 A02; 12 MONTHS $40,000

TABITA, F R; *REGULATION OF PHOTOSYNTHETIC CARBON METABOLISM* (PCM-7915111 A01; 12 MONTHS $31,410

LEVIN, DONALD A; *COLLABORATIVE STUDIES ON GENETIC POLYMORPHISM AND NICHE WIDTH IN PHLOX* (DEB-7918934 A01; 12 MONTHS $41,806

THOMPSON, GUY A; *BIOCHEMICAL REGULATION OF MEMBRANE FORM AND FUNCTION* (PCM-7914908 A01; 12 MONTHS $49,342

ROUX, STANLEY J; *CHARACTERIZATION OF PHYTOCHROME INTERACTION WITH MEMBRANES* (PCM-7915414 A02; 12 MONTHS $31,000

RIGGS, AUSTEN F; *BIOCHEMISTRY OF HEMOGLOBINS AND OXYGEN TRANSPORT* (PCM-7904053 A01; 12 MONTHS $35,000

WHALEY, W GORDON; *DIFFERENTIATION IN A PLANT SYSTEM* (PCM-7910011; 24 MONTHS $90,998

SZANISZLO, PAUL J; *SIDEROPHORE PRODUCTION BY MYCORRHIZAL FUNGI* (DEB-7911876 A01; 12 MONTHS $116,999

TURNER, B L; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY* (DEB-7918350; 37 MONTHS $3,794

STARR, RICHARD C; *OPERATION OF A CULTURE COLLECTION OF ALGAE* (DEB-7910615; 12 MONTHS $53,854

MEIER, STEPHEN P; *MECHANISMS OF PATTERN FORMATION IN EMBRYONIC MESODERM* (PCM-7911479; 24 MONTHS $80,000

WAITL, MARILYNN R; *NA+, K+ AND THE TRANSFORMED PHENOTYPE* (PCM-7911968; 24 MONTHS $60,000

BUSH, GUY L; *COLLABORATIVE RESEARCH ON EVOLUTIONARY STUDIES OF A PARTHENOGENETIC GRASSHOPPER* (DEB-7905891*; 24 MONTHS $48,058

MABRY, TOM J; *MULTI-USER MASS SPECTROMETER COMPONENTS FOR CHEMOSYSTEMATIC STUDIES OF COMPOSITAE* (DEB-8000984; 12 MONTHS $24,000

MEYER, RICHARD J; *INCOMPATIBILITY AND REPLICATION OF BROAD HOST RANGE PLASMIDS* (PCM-8000059; 24 MONTHS $80,000

BARTH, ROBERT H; *PHEROMONE-ENDOCRINE INTERACTIONS AND THE REGULATION OF DOMINANCE BEHAVIOR AND OVARIAN DEVELOPMENT* (PCM-8003785; 24 MONTHS $64,000

BROWN, DENNIS T; *THE DEVELOPMENT OF VIRAL ANTIGENS* (PCM-8004,897; 12 MONTHS $65,000

ELLISON, JOHN R; *SUPPORT FOR THE DROSOPHILA SPECIES COLLECTION* (DEB-8011010; 12 MONTHS $53,000

PIANKA, ERIC R; *ECOLOGY OF DESERT LIZARDS: A SYNTHESIS* (DEB-801 [illegible]; 18 MONTHS $90,726

BUSH, GUY L; *THE GENETICS AND ECOLOGY OF SPECIATION AND EVOLUTION IN RHAGOLETIS (TEPHRITIDAE)* (DEB-801 [illegible]; 36 MONTHS $85,000

TURNER, B L; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY* (DEB-8014743; 12 MONTHS $2,594

FORREST, HUGH S; *THE BIOCHEMISTRY OF METHOXATIN - A NEW COENZYME* (PCM-8014340; 12 MONTHS $30,000

UNIV OF TEXAS AT SAN ANTONIO

MAGEE, WAYNE E; *BIOLOGICAL ACTIVITY OF AGENTS ENTRAPPED IN LIPOSOMES* (PCM-7909465 A02; 24 MONTHS $90,152

UNIV OF TEXAS HEALTH SCI CENTER AT SAN ANTONIO

REITER, RUSSEL J; *PINEAL-REPRODUCTIVE INTERACTIONS* (PCM-8003441; 12 MONTHS $67,410

UNIV OF TEXAS HEALTH SCIENCE CENTER AT DALLAS-UNIV OF TEXAS GRAD SCHOOL OF BIOMEDICAL SCI

SRERE, PAUL A; *THE INFRASTRUCTURE OF MITOCHONDRIAL MATRIX PROTEINS* (PCM-7904907; 24 MONTHS $60,000

MAC DONALD, RAYMOND J; *ORGANIZATION AND EXPRESSION OF PANCREATIC SERINE PROTEASE GENES* (PCM-8006551; 12 MONTHS $50,000

UNIV OF TEXAS HEALTH SCIENCE CENTER AT DALLAS-UNIV OF TEXAS SOUTHWESTERN MEDICAL SCHOOL

CAPRA, J D; *IMMUNOCHEMICAL AND IMMUNOGENETIC STUDIES OF GAMMA GLOBULIN* (PCM-7912480; 12 MONTHS $52,000

UNIV OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON-UNIV OF TEXAS GRAD SCHOOL OF BIOMEDICAL SCI

LI, WEN-HSIUN G; *THE STOCHASTIC BEHAVIOR OF MUTANT GENES* (DEB-7709120 A01; 36 MONTHS $43,445

UNIV OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON

BERGET, PETER B; *MOLECULAR MECHANISMS OF PHAGE T4 BASEPLATE ASSEMBLY* (PCM-7902913 A01; 12 MONTHS $40,000

JULIANO, R L; *MOLECULAR ORGANIZATION OF A MAMMALIAN CELL MEMBRANE* (PCM-7906752 A01; 12 MONTHS $41,853

TOM, BALDWIN H; *SYMPOSIUM ON LIPOSOMES AND IMMUNOLOGY HOUSTON, TEXAS; MARCH 14-15, 1980* (PCM-7914570; 12 MONTHS $5,000

UNIV OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON-UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON

ANDREOLI, THOMAS E; *TRANSPORT PHENOMENA IN ISOLATED RENAL TUBULES AND LIPID BILAYER MEMBRANES* (PCM-7906902 A01; 12 MONTHS $87,212

UNIV OF TEXAS MD ANDERSON HOSP & TUMOR INST

MEISTRICH, MARVIN L; *NUCLEOPROTEINS IN MAMMALIAN SPERMATOGENESIS* (PCM-7908097 A01; 24 MONTHS $110,000

SCHLAMOWITZ, MAX; *THE ISOLATION AND CHARACTERIZATION OF THE FC RECEPTOR RECOGNITION UNIT OF IGG* (PCM-7910157; 24 MONTHS $53,000

WRIGHT, DAVID A; *BIOCHEMICAL GENETICS OF THE LEOPARD FROG* (PCM-8003774; 24 MONTHS $80,700

UNIV OF TEXAS MEDICAL BRANCH AT GALVESTON-UNIV OF TEXAS MARINE BIOMEDICAL INSTITUTE

BLANKENSHIP, JAMES E; *NEUROBIOLOGY OF REPRODUCTION IN APLYSIA* (PCM-7910173 A01; 12 MONTHS $35,300

UNIV OF TEXAS MEDICAL BRANCH AT GALVESTON

KONKEL, DAVID A; *REGULATORY MECHANISMS FOR HEXOSAMINIDASE GENE EXPRESSION* (PCM-8004370; 24 MONTHS $92,500

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

BAUST, JOHN G; *STRATEGIES OF LOW TEMPERATURE AND FREEZING TOLERANCE IN INSECTS* (PCM-7908569 A01; $1,700

LOEBLICH, ALFRED R, AND LOEBLICH, LAUREL A; *SOME NEW APPROACHES TO DINOFLAGELLATE SYSTEMATICS* (DEB-7909681 A01; $1,368

MAILMAN, DAVID S; *OPIATE EFFECTS ON GUT TRANSPORT AND BLOOD FLOW* (PCM-7905467 A01; 12 MONTHS $99,797

MCCAMMON, JAMES A; *THEORY OF BIOMOLECULAR STRUCTURE AND DYNAMICS* (PCM-7907686 A01; 12 MONTHS $43,082

CAMERON, GUY N; *COLLABORATIVE RESEARCH ON THE FORAGING ECOLOGY OF SIGMODON HISPIDUS* (DEB-7901439; 24 MONTHS $58,151

HAZELWOOD, ROBERT L; *RELEASE AND BASIC PHYSIOLOGY OF AVIAN PANCREATIC POLYPEPTIDE* (PCM-7908093; 12 MONTHS $34,000

UTAH

INSTITUTE OF ECOLOGY

NEUHOLD, JOHN M; *INITIATION OF A SYNTHESIS OF ECOLOGICAL DATA* (DEB-7519681 A03; $5,478

UNIVERSITY OF UTAH-COLLEGE OF MEDICINE

SUMMERS, DONALD F; *COMPOSITION AND MATURATION OF VESICULAR STOMATITIS VIRUS AND ITS INTERACTION WITH HOST CELLS (PCM-7717587 A03)*; 12 MONTHS $50,000

SCHWEIZER, MARTIN P; *200 MHZ FOURIER TRANSFORM NMR SPECTROMETER (PCM-7922394)*; 12 MONTHS $125,000

KUEHL, LEROY R; *EXTENDED ACIDIC SEQUENCES IN CHROMOSOMAL PROTEINS (PCM-8010767)*; 24 MONTHS $89,998

UNIVERSITY OF UTAH

EHLERINGER, JAMES R; *ECOPHYSIOLOGY AND ADAPTATION IN ENCELIA (DEB-7810592 A02)*; 12 MONTHS $47,000

VICKERY, ROBERT K; *EVOLUTION OF THE MIMULUS GLABRATUS COMPLEX (DEB-7911554 A01)*; 12 MONTHS $30,117

BAKER, WILLIAM K; *THE EVOLUTION OF A GENE DUPLICATION IN DROSOPHILA (DEB-7912336 A01)*; 12 MONTHS $48,000

POULTER, C D; *SYNTHESIS AND STRUCTURE OF 15N-LABELLED TRNAS (PCM-7916961)*; 24 MONTHS $100,000

NEGUS, NORMAN C; *THE EFFECT OF MBOA ON POPULATION DYNAMICS OF MICROTUS MONTANUS (DEB-7921059)*; 12 MONTHS $39,198

EDMUNDS, GEORGE F; *THE HIGHER CLASSIFICATION OF THE EPHEMEROPTERA (DEB-7923406)*; 24 MONTHS $55,000

FRANKLIN, NAOMI C; *THE N FUNCTION OF BACTERIOPHAGE LAMBDA (PCM-7924929)*; 12 MONTHS $65,000

ENDLER, JOHN A; *COLOR PATTERN VARIATION IN POECILIA RETICULATA (DEB-7927021)*; 14 MONTHS $38,260

ZMIJEWSKI, MILTON J; *BIOSYNTHESIS OF IONOPHORE ANTIBIOTIC A23187 (PCM-8003451)*; 12 MONTHS $22,000

WIENS, DELBERT; *POLLINATION AND SEED SET ON AN ELEVATIONAL GRADIENT (DEB-8010852)*; 24 MONTHS $70,000

EDMUNDS, GEORGE F; *COEVOLUTION OF SCALE INSECTS AND PINES (DEB-8011139)*; 24 MONTHS $69,959

UTAH STATE UNIVERSITY

LANNER, RONALD M; *AVIAN SEED DISPERSAL AS A SELECTIVE FACTOR IN THE EVOLUTION OF PINES (DEB-7802808 A02*)*; 12 MONTHS $30,081

MAC MAHON, JAMES A; *ODUM'S ECOSYSTEM ATTRIBUTES: TESTING AN HYPOTHESIS (DEB-7805328 A02)*; $11,402

TAKEMOTO, JON Y, AND BOEKER, ELIZABETH; *BACTERIAL PHOTOSYNTHETIC MEMBRANES: STRUCTURE AND FUNCTION (PCM-7808103 A02)*; 12 MONTHS $35,000

INNIS, GEORGE, AND MAC MAHON, JAMES A; *RECONSTRUCTION OF ECOSYSTEMS IN ARID LANDS (DEB-7904534 A01)*; 12 MONTHS $329,721

CALDWELL, MARTYN M; *TOLERANCE OF HERBIVORY BY NATIVE AND EXOTIC BUNCHGRASS IN THE SAGEBRUSH/BUNCHGRASS ECOSYSTEM (DEB-7907323 A01)*; 12 MONTHS $70,507

SPENCE, JACK T; *RATIO RECORDING/SCANNING UV-VIS DOUBLE BEAM SPECTROPHOTOMETER (PCM-7908658)*; 12 MONTHS $8,000

LANGERMAN, NEAL; *SUPPORT OF THE 35TH ANNUAL CALORIMETRY CONFERENCE; GULFPORT, ALABAMA, AUGUST 1980 (PCM-8008718)*; 6 MONTHS $2,500

MAC MAHON, JAMES A; *FACILITATION OF PLANT RE-ESTABLISHMENT BY POCKET GOPHERS FOLLOWING A VOLCANIC ERUPTION (DEB-8022641)*; 10 MONTHS $8,938

VERMONT

UNIVERSITY OF VERMONT

PENNYPACKER, JOHN P; *CELL SURFACE-EXTRACELLULAR MATRIX INTERACTIONS (PCM-8003769)*; 12 MONTHS $40,000

ULLRICH, ROBERT C; *ISOLATING REGULATORY, DEVELOPMENTAL AND HOUSEKEEPING GENES FROM THE FUNGUS SCHIZOPHYLLUM (PCM-8004589)*; 24 MONTHS $92,000

HEINRICH, BERND; *UTILIZATION AND COMPETITION FOR ENERGY RESOURCES BY INSECTS (DEB-8024250)*; 12 MONTHS $18,124

VIRGINIA

COLLEGE OF WILLIAM AND MARY

MANGUM, CHARLOTTE P; *FUNCTION OF OXYGEN TRANSPORT SYSTEMS IN UNSTABLE IONIC ENVIRONMENTS (PCM-7720159 A02)*; 12 MONTHS $24,969

SCOTT, JOSEPH L; *SYSTEMATICS OF THE RED ALGAE (DEB-7922205)*; 12 MONTHS $36,250

ZIMMERMAN, MICHAEL; *THE EFFECT OF RESOURCE ARRANGEMENT ON FORAGING BEHAVIOR (DEB-8004280)*; 24 MONTHS $44,809

OLD DOMINION UNIVERSITY

DAY, FRANK P; *ACQUISITION OF A CONTINOUS FLOW ANALYTICAL SYSTEM FOR ECOLOGICAL RESEARCH (DEB-7921120)*; 12 MONTHS $47,114

RANDOLPH-MACON COLLEGE

MARTIN, WILLIAM W; *MORPHOLOGY, SYSTEMATICS, AND ECOLOGY OF FUNGAL PARASITES OF MIDGES (DEB-7610539 A02)*; $4,622

UNIVERSITY OF VIRGINIA-SCHOOL OF MEDICINE

WAGNER, ROBERT R; *REGULATORY FUNCTIONS AND STRUCTURE OF VIRAL GLYCOPROTEINS AND MEMBRANES (PCM-7700494 A03)*; 12 MONTHS $52,800

KADNER, ROBERT J; *GENETIC CONTROL OF MEMBRANE TRANSPORT (PCM-7836711 A01)*; 12 MONTHS $39,867

UNIVERSITY OF VIRGINIA

HUSKEY, ROBERT J; *GENETIC REGULATION OF REPRODUCTIVE CELL PATTERNS IN VOLVOX (PCM-7711391 A02)*; 24 MONTHS $103,370

SCHNAITMAN, CARL A; *STRUCTURAL PROTEINS OF BACTERIAL MEMBRANES (PCM-7909817 A01)*; 12 MONTHS $40,000

BRILL, ARTHUR S; *MAGNETIC STUDIES OF TRANSITION METAL IONS COORDINATED TO PROTEINS AND TO PROSTHETIC GROUPS (PCM-7904361 A01)*; 12 MONTHS $42,000

FLICKINGER, CHARLES J; *SECRETION IN THE EPIDIDYMIS (PCM-7922242)*; 12 MONTHS $48,897

HECHT, SIDNEY M; *AMINO ACID SUBSTITUTIONS IN BACTERIOPHAGE T4 LYSOZYME (PCM-7923063)*; 12 MONTHS $36,000

BILTONEN, RODNEY L; *LIPID STRUCTURAL FLUCTUATIONS AND MEMBRANE FUNCTION (PCM-8003645)*; 12 MONTHS $70,000

BENZINGER, ROLF H; *BACTERIOPHAGE INFECTIVE FOR FAST-GROWING RHIZOBIA (PCM-8003914)*; 12 MONTHS $45,559

KONIGSBERG, IRWIN R, AND SUTHERLAND, WILLIAM M; *CPK SUBUNIT SYNTHESIS DURING MUSCLE CELL MATURATION (PCM-8004058)*; 12 MONTHS $32,999

MARTIN, R BRUCE; *METAL ION INTERACTIONS WITH COMPOUNDS OF BIOLOGICAL INTEREST (PCM-8010967)*; 24 MONTHS $100,000

LITMAN, BURTON J; *THE EFFECT OF PROTEIN-PHOSPHOLIPID INTERACTIONS ON THE CONFORMATIONAL STABILITY OF MEMBRANE PROTEIN (PCM-8012068)*; 12 MONTHS $50,000

VIRGINIA COMMONWEALTH UNIVERSITY-HEALTH SCIENCES DIVISION

NOLIN, JANET M; *REGULATION OF TARGET CELL FUNCTION BY PROLACTIN, OXYTOCIN AND STEROIDS (PCM-7623641 A03)*; $3,301

VIRGINIA COMMONWEALTH UNIVERSITY

SCHIRCH, LAVERNE; *MECHANISM OF ENZYMES INVOLVED IN ONE-CARBON METABOLISM (PCM-7725748 A02)*; 12 MONTHS $22,000

BOND, JUDITH S, AND BRADLEY, S GAYLEN; *PROTEIN CATABOLISM IN THE REGULATION OF NOCARDIA (PCM-7807868 A01)*; 12 MONTHS $41,980

FREER, RICHARD J; *AUTOMATIC PEPTIDE SYNTHESIZER (PCM-7921967)*; 12 MONTHS $30,000

KRIEG, RICHARD J; *INTERACTION OF PROLACTIN AND LUTEINIZING HORMONE SECRETORY MECHANISMS (PCM-7922155)*; 24 MONTHS $56,000

MACRINA, FRANCIS L; *FOURTH ANNUAL MID-ATLANTIC EXTRACHROMOSOMAL GENETIC ELEMENTS MEETING, CHARLOTTESVILLE, VIRGINIA, 26-28 SEPTEMBER 1980 (PCM-8013032)*; 6 MONTHS $1,000

VIRGINIA POLYTECHNIC INSTITUTE

STORRIE, BRIAN; *METABOLISM OF ENDOCYTIC MEMBRANE IN FIBROBLASTS (PCM-7718938 A02)*; 12 MONTHS $33,645

TYSON, JOHN J; *THEORETICAL STUDIES OF SOME BIOLOGICAL REGULATORY SYSTEMS (MCS-7919787*)*; 24 MONTHS $8,631

TURNER, BRUCE J; *EVOLUTIONARY GENETICS OF ILYODON (DEB-7923009)*; 24 MONTHS $67,809

JOHNSON, JOHN L; *RIBOSOMAL RNA HOMOLOGIES AMONG ANAEROBIC BACTERIA (DEB-8001191)*; 12 MONTHS $31,679

ROES, MARY H; *CHROMOSOME BEHAVIOR AND ITS CONTROL IN TRANSLOCATION HETEROZYGOTES OF BLATTELLA GERMANICA (PCM-8001690)*; 12 MONTHS $21,782

ANDERSON, BRUCE M; *STUDIES ON THE MECHANISM OF ACTION OF PYRIDINE NUCLEOTIDE DEPENDENT ENZYMES (PCM-8010617)*; 24 MONTHS $50,000

OPELL, BRENT D; *SYSTEMATIC AND ANATOMICAL STUDIES OF MIAGRAMMOPES (DEB-8011713)*; 24 MONTHS $35,684

MILLER, ORSON K; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8016428)*; 24 MONTHS $4,960

WASHINGTON

BATTELLE MEMORIAL INSTITUTE-BATTELLE NORTHWEST LABORATORIES

CUSHING, C E; *IMMEDIATE EFFECTS OF MT. ST. HELENS ASH FALLOUT ON STREAMS DRAINING MT. ADAMS (DEB-8021374)*; 6 MONTHS $11,430

CENTRAL WASHINGTON UNIVERSITY

SMITH, STAMFORD D; *EFFECTS OF MT. ST. HELENS ON STREAM MACROBENTHOS (DEB-8020867)*; 3 MONTHS $11,194

FRED HUTCHINSON CANCER RESEARCH CENTER

GROUDINE, MARK T; *THE REGULATION OF EXPRESSION OF CELLULAR AND ENDOGENOUS RETROVIRAL GENES (PCM-7903675 A01)*; 12 MONTHS $50,000

NEWMAN, WALTER; *THE SPECIFICITY OF HUMAN CYTOTOXIC CELLS (PCM-8008749)*; 12 MONTHS $30,000

UNIVERSITY OF WASHINGTON-SCHOOL OF MEDICINE

SHAPIRO, BENNETT M; *THE SPERM AND EARLY EMBRYONIC DEVELOPMENT (PCM-7720472 A01)*; 24 MONTHS $125,000

EDDY, EDWARD M; *CELL SURFACE COMPONENTS IN DEVELOPMENTAL EVENTS (PCM-7921871)*; 24 MONTHS $79,990

STORM, DANIEL R; *MECHANISM FOR HORMONAL STIMULATION OF ADENYLATE CYCLASE (PCM-8007327)*; 12 MONTHS $41,500

UNIVERSITY OF WASHINGTON

RIDDIFORD, LYNN M; *CHEMICAL AND NEURAL CONTROL OF INSECT METAMORPHOSIS AND BEHAVIOR (PCM-7618300 A03)*; 12 MONTHS $41,994

KOEHLER, JAMES K; *CHARACTERIZATION, PROPERTIES AND FUNCTION OF A SPECIFIC COLLAGEN BINDING PROTEIN ON THE RABBIT SPERM SURFACE (PCM-7701138 A02)*; 24 MONTHS $80,000

FARNER, DONALD S; *CONTROL OF REPRODUCTIVE AND OTHER PHYSIOLOGIC CYCLES (PCM-7717690 A02)*; 12 MONTHS $30,501

KOHN, ALAN J; *ADAPTIVE DIFFERENTIATION, BIOLOGICAL RELATIONSHIPS, AND SYSTEMATICS OF CONIDAE (DEB-7724430 A02)*; 12 MONTHS $45,348

TRUMAN, JAMES W; *HORMONES AND CIRCADIAN RHYTHMS IN THE REGULATION OF INSECT BEHAVIOR (PCM-7724878 A02)*; 12 MONTHS $46,900

BLEDSOE, CAROLINE S; *NITROGEN TRANSFERS BY MYCORRHIZAL DOUGLAS-FIR ROOTS (DEB-7724907 A01)*; 24 MONTHS $163,870

SCHOENER, THOMAS W; *FORAGING THEORY: EXTENSIONS AND TESTS (DEB-7802069 A01)*; 24 MONTHS $105,797

BAKKEN, AIMEE H; *CHROMOSOME STRUCTURE AND FUNCTION DURING EARLY DEVELOPMENT (PCM-7808870 A02)*; 12 MONTHS $59,911

FALKOW, STANLEY, AND CROSA, JORGE H; *EVOLUTION OF BACTERIAL PLASMIDS (PCM-7808971 A02)*; 12 MONTHS $60,000

HUEY, RAYMOND B; *PHYSIOLOGICAL ECOLOGY OF LOCOMOTION IN TERRESTRIAL VERTEBRATE ECTOTHERMS (DEB-7812024 A01)*; 4 MONTHS $8,873

SCHURR, J M; *DYNAMICS OF ELEMENTARY PROCESSES IN SOLUTIONS OF BIOPOLYMERS AND BIOCOLLOIDS (PCM-7812136 A02)*; 12 MONTHS $35,000

STORB, URSULA; *CLONING OF IMMUNOGLOBULIN GENES (PCM-7813205 A01)*; 12 MONTHS $55,000

SCHOENER, THOMAS W, AND SCHOENER, AMY; *SPECIES DIVERSITY AND ABUNDANCE IN INSULAR SYSTEMS (DEB-7822738 A01)*; 12 MONTHS $40,501

COLE, DALE W; *ELEMENTAL LEACHING LOSSES IN FOREST SOILS (DEB-7824395 A01)*; 12 MONTHS $106,185

PIETSCH, THEODORE W; *SYSTEMATICS AND DISTRIBUTION OF NORTH AMERICAN ANGLERFISHES (DEB-7826540 A01)*; 12 MONTHS $14,500

SLATKIN, M W; *GENETICAL STRUCTURE OF SUBDIVIDED POPULATIONS (DEB-7827045 A01)*; 12 MONTHS $26,000

EDMONDS, ROBERT L; *LITTER DECOMPOSITION IN DOUGLAS-FIR ECOSYSTEMS (DEB-7901141 A01)*; 12 MONTHS $47,902

STERN, EDWARD A, AND PARSON, WILLIAM W; *STUDIES ON BIOLOGICAL SYSTEMS WITH EXAFS (PCM-7903674 A01)*; 12 MONTHS $49,500

POCKER, YESHAYAU; *RELATIONSHIPS BETWEEN ACTIVITY AND STRUCTURE OF ENZYMES (PCM-7904117)*; 12 MONTHS $61,000

BRUBAKER, LINDA B; *CLIMATE AND FOREST PRODUCTIVITY CHANGES AT THE END OF THE LITTLE ICE AGE (DEB-7921643)*; 12 MONTHS $49,220

HUTCHINSON, THOMAS E; *CALCIUM SUBCELLULAR LOCALIZATION IN MYOCARDIUM AND CILIA (PCM-7921657)*; 24 MONTHS $62,150

RICHEY, JEFFREY E; *TRANSPORT AND PROCESSING OF ORGANIC CARBON IN THE AMAZON (DEB-7922187)*; 12 MONTHS $89,605

GORBMAN, AUBREY; *CYCLOSTOME ENDOCRINOLOGY (PCM-8002352)*; 12 MONTHS $70,000

ZARET, THOMAS M; *ECOLOGY AND LIMNOLOGY OF VARZEA LAKES OF THE AMAZON (DEB-8003203)*; 12 MONTHS $146,184

DENTON, MELINDA F; *SYSTEMATICS OF SEDUM SECTION GORMANIA (CRASSULACEAE) (DEB-8004180)*; 24 MONTHS $51,591

GRIER, CHARLES C; *EFFECTS OF DETRITUS ACCUMULATION ON CARBON AND NUTRIENT FLOW IN SUBALPINE ABIES AMABILIS ECOSYSTEMS OF THE WASHINGTON CASCADES (DEB-8004445)*; 12 MONTHS $145,051

ORIANS, GORDON H; *BEHAVIOR PATTERNS AND PARENTAL CARE (BNS-8004873*)*; 24 MONTHS $38,998

ORIANS, GORDON H; *EVOLUTIONARY INTERACTIONS AMONG PLANTS AND THEIR HERBIVORES (DEB-8005588)*; 12 MONTHS $100,000

KENAGY, GEORGE J; *ENERGETICS OF MAMMALIAN LIFE HISTORIES (DEB-8005906)*; 12 MONTHS $39,000

ORIANS, GORDON H; *DOCTORAL DISSERTATION RESEARCH IN PSYCHOBIOLOGY (BNS-8007381*)*; 15 MONTHS $4,810

ROHWER, SIEVERT A; *DETERMINANTS OF RELIABILITY IN SIGNALS OF DOMINANCE STATUS (BNS-8008957*)*; 12 MONTHS $14,015

EDMONDSON, W T; *LAKE NUTRIENT STUDY (DEB-8009061)*; 12 MONTHS $113,409

STADLER, DAVID R; *LOW DOSE MUTAGENESIS IN NEUROSPORA (PCM-8011507)*; 24 MONTHS $91,546

PARSON, WILLIAM W; *LASER FLASH STUDIES OF BACTERIAL PHOTOSYNTHESIS (PCM-8016593)*; 12 MONTHS $150,000

BENDICH, ARNOLD J; *WHY IS THERE SO MUCH DNA IN PLANTS? (PCM-8016584)*; 24 MONTHS $60,000

FRITSCHEN, LEO J; *MT. ST. HELENS: MICROENVIRONMENTAL AND SOIL PHYSICAL PROPERTIES OF ASH (DEB-8020935)*; 6 MONTHS $8,621

VOGT, KRISTIINA; *IMPACT OF ASH FALL ON BELOW-GROUND ECOSYSTEM PROCESSES (DEB-8020938)*; 3 MONTHS $12,705

GARA, ROBERT I; *THE IMPACT OF MT. ST. HELENS ERUPTION OF FORAGING INSECTS: THE ANTS (DEB-8021091)*; 8 MONTHS $8,115

GARA, ROBERT I; *IMPACT OF BARK BEETLES AND WOODBORERS OF FORESTS AFFECTED BY THE MT. ST. HELENS EXPLOSION (DEB-8021092)*; 12 MONTHS $9,923

BLISS, LAWRENCE C; *IMPLICATIONS OF ASH AND MUDFLOWS ON SUCCESSION AND ECOPHYSIOLOGY OF ORGANISMS WITHIN GROUND ZERO, MT. ST. HELENS (DEB-8021460)*; 6 MONTHS $13,644

FARNER, DONALD S; *EFFECTS OF ERUPTION OF 18 MAY BY MT. ST. HELENS ON MIGRATORY AND WINTERING POPULATIONS OF WHITE CROWNED SPARROWS (PCM-8022100)*; 12 MONTHS $4,068

UGOLINI, FIORENZO C; *IMPACT OF MT. ST. HELENS TEPHRA ON FOREST SOIL PROCESSES (DEB-8022101)*; 6 MONTHS $6,291

HINCKLEY, THOMAS M; *THE IMPACT OF TEPHRA ON THE PHYSIOLOGICAL STATUS OF FOLIAGE IMMEDIATELY FOLLOWING ERUPTION (DEB-8022643)*; 5 MONTHS $9,920

WASHINGTON STATE UNIVERSITY

MACK, RICHARD N; *COMPARATIVE PLANT POPULATION ECOLOGY WITHIN STEPPE COMMUNITIES OF EASTERN WASHINGTON (DEB-7680952 A03)*; $4,344

KOLATTUKUDY, P E; *STRUCTURE, BIOSYNTHESIS AND DEGRADATION OF THE BIOPOLYMERS CUTIN AND SUBERIN (PCM-7700927 A02)*; 12 MONTHS $69,500

RYAN, CLARENCE A; *BIOCHEMICAL CHARACTERIZATION OF PIIF, A PLANT WOUND HORMONE (PCM-7722195 A02)*; 12 MONTHS $41,250

POOVAIAH, B W; *CHARACTERIZATION OF IN VITRO AUXIN BINDING TO MEMBRANES FROM DEVELOPING FRUIT TISSUES (PCM-7805292 A01)*; 12 MONTHS $33,300

LOEWUS, FRANK A; *BIOSYNTHESIS AND METABOLISM OF ASCORBIC ACID IN PLANTS (PCM-7813254 A01)*; 12 MONTHS $28,800

FISHER, DONALD B; *INVESTIGATIONS OF SIEVE TUBE PHYSIOLOGY WITH PHLOEM-FEEDING INSECTS (PCM-7815253 A01)*; 12 MONTHS $33,887

CROTEAU, RODNEY; *BIOSYNTHESIS OF MONOTERPENES (PCM-7819417 A01)*; 12 MONTHS $41,322

WINDSOR, MAURICE W, AND HOLTEN, J D; *ELECTRON TRANSFER IN BACTERIAL PHOTOSYNTHESIS AND IN MODEL SYSTEMS (PCM-7902911 A01)*; 12 MONTHS $40,555

MC FADDEN, BRUCE A; *ISOCITRATE LYASE AND THE GLYOXYLATE CYCLE (PCM-7909786)*; 12 MONTHS $52,000

KING, JAMES R; *AVIAN ECOLOGICAL ENERGETICS (DEB-7909806 A01)*; 12 MONTHS $42,000

LOEWUS, FRANK A; *SYMPOSIUM: PHYTOCHEMISTRY OF CELL RECOGNITION AND CELL SURFACE INTERACTIONS, PULLMAN, WA., AUGUST 4-7, 1980 (PCM-7910094*)*; 12 MONTHS $4,000

THOMPSON, JOHN N; *MODES OF HERBIVORY AND PATCH DYNAMICS IN COEVOLVING INSECTS AND PLANTS (DEB-7918492)*; 12 MONTHS $39,081

MACK, RICHARD N; *PLANT POPULATION BIOLOGY WITHIN STEPPE COMMUNITIES OF EASTERN WASHINGTON - ROLE OF ALIEN BROMES (DEB-8001518)*; 12 MONTHS $30,000

KIRSCHNER, LEONARD B; *SOLUTE AND WATER FLUXES ACROSS REGULATORY EPITHELIA (PCM-8003800)*; 12 MONTHS $40,000

KAHN, MICHAEL L; *DETERMINATION OF THE HOST RANGE OF BACTERIOPHAGE P4 DERIVED CLONING VEHICLES (PCM-8003848)*; 24 MONTHS $52,204

THOMPSON, JOHN N; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8007724)*; 12 MONTHS $2,905

KENNEDY, ROBERT A; *EMERGENCY REQUEST FOR FUNDS TO STUDY THE EFFECTS OF MOUNT ST. HELENS' ASH ON PLANT AND CROP GROWTH (DAR-8020160*)*; 12 MONTHS $7,400

LARSEN, FENTON E, AND FRITTS, ROBERT; *CHANGES IN INFILTRATION RATES OF SOILS DUE TO VOLCANIC ASH COVERAGE (DEB-8020862)*; 12 MONTHS $15,546

FRANZ, ELDON H; *TRANSIENTS ASSOCIATED WITH INITIATION OF THE NITROGEN CYCLE ON VOLCANIC ASH DURING CONONIZATION BY THE 'SOIL CRUST' BIOTA (DEB-8020863)*; 12 MONTHS $9,971

HOSICK, HOWARD L, ANGELLO, JOHN C, AND ZAMORA, PAUL O; *EFFECTS OF COLVANIC ASH EXTRACT ON CELLS OF MAMMALIAN LUNG, ENDOTHELIUM, LIVER AND MAMMARY GLAND (PCM-8020865)*; 12 MONTHS $10,479

BROWN, JOHN J; *THE EFFECTS OF VOLCANIC ASH UPON INSECTS IN EASTERN WASHINGTON FOLLOWING THE ERUPTION OF MT. ST. HELENS (DEB-8020871)*; 3 MONTHS $11,069

MACK, RICHARD N; *PERTURBATION AND RECOVERY: EFFECTS OF THE MT. ST. HELEN'S ASHFALL ON VEGETATION OF EASTERN WASHINGTON (DEB-8020872)*; 2 MONTHS $7,941

MILLER, DON E; *EFFECTS OF VOLCANIC ASH FALLOUT ON THE REPRODUCTIVE SUCCESS OF BREEDING GULLS IN EASTERN WASHINGTON (DEB-8020936)*; 1 MONTHS $5,153

GILMARTIN, AMY JEAN; *EFFECTS OF VOLCANIC ASH ON POPULATIONS OF PALOUSE PLANTS IN WASHINGTON, OREGON AND IDAHO (DEB-8020937)*; 5 MONTHS $8,833

MEHRINGER, PETER J; *DEPOSITIONAL SEQUENCE AND EFFECTS OF MT. ST. HELEN'S TEPHRA IN THE LAKES OF EASTERN WAHINGTON: THE FIRST SIX MONTHS (DEB-8020956)*; 8 MONTHS $10,187

MEADOWS, GARY G; *PHYSIOLOGICAL EFFECTS OF VOLCANIC ASH ON LABORATORY MICE (PCM-8021090)*; 9 MONTHS $10,000

WILLIAMS, GEORGE J; *EFFECT OF MT. ST. HELENS ASH ON WEED COMMUNITIES OF EASTERN WASHINGTON (DEB-8022390)*; 6 MONTHS $10,154

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

THOMPSON, HERBERT A; *PROTEIN SYNTHESIS IN BACTERIA (PCM-7903282 A01)*; 12 MONTHS $45,000

WISCONSIN

MARQUETTE UNIVERSITY

WARING, GAIL L; *DEVELOPMENTAL REGULATION OF DROSOPHILA CHORIOGENESIS (PCM-7823385 A01)*; 12 MONTHS $51,640

KUMARAN, A K; *CONTROL OF JUVENILE HORMONE ESTERASE SYNTHESIS (PCM-7922771)*; 24 MONTHS $70,000

MEDICAL COLLEGE OF WISCONSIN

HYDE, JAMES S; *MULTIPROBE STUDIES ON MELANIN (PCM-7823206 A01)*; 12 MONTHS $42,000

GHAZARIAN, JACOB G; *ENZYMES IN THE VITAMIN D3 ENDOCRINE COMPLEX (PCM-7823267 A01)*; 12 MONTHS $28,346

LOMBARD, JULIAN H; *PURCHASE OF OPTICAL AND VIDEOTAPE EQUIPMENT SYSTEMS TO STUDY MICROVASCULAR FUNCTION (PCM-8020571)*; 12 MONTHS $22,600

SOCIETY FOR DEVELOPMENTAL BIOLOGY

ABBOTT, URSULA K; *LEVELS OF GENETIC CONTROL IN DEVELOPMENT STORRS, CONNECTICUT, JUNE 23-25, 1980 (PCM-8008823)*; 12 MONTHS $12,500

UNIVERSITY OF WISCONSIN SYSTEM OFFICE

KAHAN, LAWRENCE; *MONOCLONAL ANTIBODIES AS PROBES OF EUCARYOTE RIBOSOME STRUCTURE (PCM-8004597)*; 12 MONTHS $38,000

UNIVERSITY OF WISCONSIN-MADISON-MEDICAL SCHOOL

PORTER, JOHN W; *ENZYMES SYNTHESIZING CAROTENES IN PLANTS (PCM-7715825 A02)*; 12 MONTHS $35,400

BURGESS, RICHARD R; *E. COLI RNA POLYMERASE SIGMA SUBUNIT: STRUCTURE AND ROLE IN SELECTIVE TRANSCRIPTION (PCM-7725099 A01)*; $5,500

BITTAR, E EDWARD; *PURCHASE OF A COMPUTER (PCM-7922952)*; 12 MONTHS $6,000

UNIVERSITY OF WISCONSIN-MADISON

BRILL, WINSTON J; *BIOCHEMISTRY AND GENETICS OF NITROGEN FIXATION (PCM-7624271 A03)*; 12 MONTHS $76,600

DAHLBERG, JAMES E, AND LUND, ELSEBET; *STRUCTURE, FUNCTION AND GENE ORGANIZATION OF SMALL RNA'S OF E. COLI (PCM-7707357 A03)*; 12 MONTHS $72,000

EDWARDS, GERALD E; *PHOTOSYNTHETIC METABOLISM IN ISOLATED CELLS AND PROTOPLASTS FROM C3 AND C4 PLANTS (PCM-7708384 A02)*; 12 MONTHS $41,000

NELSON, OLIVER E; *STARCH SYNTHESIS IN THE ENDOSPERM OF MAIZE (PCM-7712884 A01)*; 12 MONTHS $26,500

BURRIS, R H; *BIOLOGICAL FIXATION OF NITROGEN (PCM-7721038 A02)*; $4,800

BURRIS, R H; *BIOLOGICAL FIXATION OF NITROGEN (PCM-7721038 A03)*; 12 MONTHS $51,703

HELGESON, JOHN P, SEQUEIRA, LUIS, AND DEZOETEN, G A; *RACE-SPECIFIC RESISTANCE IN PLANTS (PCM-7723326 A01)*; 12 MONTHS $43,000

ANDREWS, JOHN H; *MICROBIAL ANTAGONISM ON LEAF SURFACES (DEB-7725783 A01)*; 12 MONTHS $41,448

FITCH, WALTER M; *MOLECULAR SYSTEMATICS OF THE HIGHER TAXA OF VERTEBRATES (DEB-7804291 A01)*; 12 MONTHS $34,000

HANSON, RICHARD S; *METHYLOTROPHIC BACTERIA: ISOLATION AND CHARACTERIZATION (PCM-7809744 A01)*; 12 MONTHS $31,780

HALL, TIMOTHY C; *METABOLIC BIOLOGY OF BEAN SEEDS: CHARACTERIZATION OF STORAGE PROTEIN M-RNA (PCM-7811804 A01)*; 12 MONTHS $56,652

FITCH, WALTER M; *MOLECULAR APPROACHES TO THE STUDY OF EVOLUTION (DEB-7816197 A01)*; 12 MONTHS $40,220

SONNEBORN, DAVID R; *DEVELOPMENTAL ANALYSES OF BLASTOCLADIELLA EMERSONII (PCM-7815334 A01)*; 12 MONTHS $75,000

CLELAND, WILLIAM W; *STEREOCHEMISTRY OF MGATP AS A SUBSTRATE (PCM-7823345 A01)*; 12 MONTHS $25,000

ADLER, JULIUS; *MOLECULAR BIOLOGY OF CHEMOSENSING IN BACTERIAL CHEMOTAXIS (PCM-7826573 A01)*; 12 MONTHS $50,000

CHEN, CHONG M; *ON THE MECHANISM OF CYTOKININ IN CELL DIVISION AND DIFFERENTATION (PCM-7903832 A01)*; 12 MONTHS $45,311

FALLON, JOHN F; *CELLULAR CHARACTERISTICS DURING LIMB DEVELOPMENT (PCM-7903980 A01)*; 12 MONTHS $53,732

RECORD, M T; *ELECTROSTATIC COMPONENT OF PROTEIN-NUCLEIC ACID INTERACTIONS (PCM-7904607 A01)*; 12 MONTHS $53,400

BROCK, THOMAS D; *DEVELOPMENT AND DISSIPATION OF BLUE-GREEN ALGAE IN FRESHWATER LAKES (DEB-7906030 A01*)*; 12 MONTHS $29,500

GERLOFF, GERALD C; *EFFICIENCY IN PHOSPHORUS UPTAKE AND DISTRIBUTION BY PLANTS (PCM-7908908*)*; 12 MONTHS $23,000

BITTAR, E EDWARD; *QUANTITATIVE ASPECTS OF MYOPLASMIC ATP IN SINGLE MUSCLE FIBERS (PCM-7910101)*; 12 MONTHS $21,667

NOMURA, MASAYASU; *STRUCTURE, FUNCTION AND ASSEMBLY OF RIBOSOMES (PCM-7910616 A01)*; 12 MONTHS $100,000

NELSON, OLIVER E; *CONTROLLING ELEMENTS IN MAIZE: AN EXAMINATION OF THEIR EFFECT ON GENE FUNCTION (PCM-7910652 A01)*; 12 MONTHS $51,113

SELMAN, BRUCE R; *ENERGY CONSERVATION IN HIGHER PLANT CHLOROPLASTS (PCM-7911025 A01)*; 12 MONTHS $30,000

GIBBONS, WILLIAM A; *NMR STUDIES OF ANTIBIOTIC PEPTIDES (PCM-7911563 A01)*; 12 MONTHS $50,000

KITCHELL, JAMES F; *PALEOECOLOGICAL STUDIES OF PREDATOR-PREY INTERACTIONS (DEB-7911781 A01)*; $8,380

GRAHAM, LINDA E; *REPRODUCTIVE DEVELOPMENT IN COLEOCHAETE: CONTROL AND PHYLOGENETIC IMPLICATIONS (PCM-7912093 A01)*; 12 MONTHS $27,398

MAGNUSON, JOHN J; *HABITAT, FISH COMMUNITY, AND RESOURCE UTILIZATION IN SMALL NORTHERN LAKES (DEB-7912337 A01)*; 12 MONTHS $55,967

DAVIES, JULIAN; *PLASMIDS AND ANTIBIOTIC - MODIFYING ENZYMES (PCM-7913845 A01)*; 12 MONTHS $38,000

SCRIBER, J M; *FOODPLANT UTILIZATION BY LEPIDOPTERA (DEB-7921749)*; 12 MONTHS $49,254

O'LEARY, MARION H; *HEAVY-ATOM ISOTOPE EFFECTS IN BIOCHEMICAL SYSTEMS (PCM-7922697)*; 12 MONTHS $36,000

ATCHLEY, WILLIAM R; *COLLABORATIVE RESEARCH ON EVOLUTIONARY STUDIES ON A PARTHENOGENETIC GRASSHOPPER (DEB-7923012*)*; 24 MONTHS $23,942

BECK, STANLEY D; *THERMOPERIODISM IN INSECTS (PCM-8002350)*; 24 MONTHS $74,390

LILIEN, JACK E; *THE SYNTHESIS AND INTERACTION OF COMPONENTS MEDIATING SPECIFIC EMBRYONIC CELL ADHESION (PCM-8002595)*; 24 MONTHS $90,000

QUAIL, PETER H, AND NEWCOMB, ELDON H; *LIGHT-REGULATED PLANT DEVELOPMENT: MODE OF ACTION AND SUBCELLULAR LOCALIZATION OF PHYTOCHROME (PCM-8003792)*; 12 MONTHS $75,000

EVERT, RAY F; *LEAF STRUCTURE IN RELATION TO SOLUTE TRANSPORT AND PHLOEM LOADING (PCM-8003855)*; 12 MONTHS $60,000

ABER, JOHN D; *ORGANIC MATTER AND NITROGEN DYNAMICS IN FOREST ECOSYSTEMS (DEB-8005081)*; 12 MONTHS $146,536

ABER, JOHN D; *ORGANIC MATTER AND NITROGEN DYNAMICS IN FOREST ECOSYSTEMS (DEB-8005081 A01)*; $1,000

BECKER, WAYNE M; *REGULATION OF GENE EXPRESSION AND ENZYME COMPARTMENTALIZATION IN GERMINATING FAT-STORING SEEDS (PCM-8009444)*; 12 MONTHS $66,000

CROXDALE, JUDITH; *ENZYMES AND METABOLITES OF CARBOHYDRATE OXIDATION WITHIN VEGETATIVE HEBE SHOOT APICES (PCM-8010957)*; 12 MONTHS $23,541

LEONARD, THOMAS J; *GENETIC ANALYSIS OF HAPLOID HOMOKARYOTIC CELLS RECOVERED FROM UNDIFFERENTIATED AND DIFFERENTIATED DIKARYOTIC CELLS OF THE FUNGUS SCHIZOPHYLLUM COMMUNE (PCM-8011541)*; 24 MONTHS $73,645

AUERBACH, ROBERT; *REGIONAL DIFFERENCES IN TUMOR GROWTH AND DEVELOPMENT (PCM-8011791)*; 12 MONTHS $50,000

MAGNUSON, JOHN J, ANDERSON, MARY P, ARMSTRONG, DAVID, BOWSER, CARL J, AND RAGOTZKIE, ROBERT A; *COMPARATIVE STUDIES OF A SUITE OF LAKES IN WISCONSIN (DEB-8012313*)*; 12 MONTHS $218,328

UNIVERSITY OF WISCONSIN-MILWAUKEE

MCFARLAND, JAMES T; *STUDIES OF B-HYDROXYBUTYRATE DEHYDROGENASE (PCM-7723591 A01)*; 12 MONTHS $30,000

BERGTROM, GERALD; *CONTROL OF HEMOGLOBIN SYNTHESIS IN CHIRONOMUS (PCM-8010915)*; 24 MONTHS $69,886

WYOMING

UNIVERSITY OF WYOMING

KNIGHT, DENNIS H; *WATER AND NUTRIENT LOSS FROM ROCKY MOUNTAIN FOREST ECOSYSTEMS (DEB-7805311 A02)*; 6 MONTHS $44,318

NOE, LEWIS J, AND GUZZO, ANTHONY V; *A PICOSECOND SPECTROSCOPIC STUDY OF HEME-PROTEINS (PCM-7816199 A01)*; 12 MONTHS $35,000

FRERICHS, WILLIAM E; *ACQUISITION OF A MULTIUSER SCANNING ELECTRON MICROSCOPE (DEB-7912181)*; 12 MONTHS $78,850

SMITH, WILLIAM K; *WATER AND PHOTOSYNTHETIC RELATIONS OF TWO SUBALPINE, UNDERSTORY PLANTS (DEB-7922510)*; 24 MONTHS $58,498

GERN, WILLIAM A; *INDOLEAMINE METABOLISM IN PHOTORECEPTORS (PCM-7923143)*; 12 MONTHS $28,000

HIGGINS, NORMAN P; *BIOCHEMICAL STUDIES OF BACTERIOPHAGE MU TRANSPOSITION (PCM-8004689)*; 12 MONTHS $44,000

KNIGHT, DENNIS H; *WATER AND NUTRIENT LOSS FROM ROCKY MOUNTAIN FOREST ECOSYSTEMS (DEB-8011024)*; 12 MONTHS $146,592

MIDDAUGH, CHARLES R; *ABNORMAL PROTEIN SOLUBILITY (PCM-8011193)*; 12 MONTHS $40,000

LILLEGRAVEN, JASON A; *REPLACEMENT OF SPECIMEN CABINETS, COLLECTION OF FOSSIL VERTEBRATES, THE UNIVERSITY OF WYOMING (DEB-8017669)*; 12 MONTHS $53,343

SOCIAL SCIENCE

ARIZONA

UNIVERSITY OF ARIZONA

SALMON, WESLEY C; *A UNIFIED THEORY OF SCIENTIFIC EXPLANATION (SES-7809146 A02)*; 12 MONTHS $20,730

SMITH, VERNON L; *EXPERIMENTAL STUDIES OF RESOURCE ALLOCATION MECHANISMS (SES-7811451 A01)*; 12 MONTHS $172,975

CALIFORNIA

ACALANES UNION HIGH SCHOOL DISTRICT

DOSKEY, JOHN S; *THE JOURNALS OF WILLIAM MACLURE (SES-8008150)*; 12 MONTHS $13,700

CALIFORNIA INSTITUTE OF TECHNOLOGY

PLOTT, CHARLES R; *A LABORATORY EXPERIMENTAL INVESTIGATION OF INSTITUTIONAL INFLUENCES ON POLITICAL ECONOMIC PROCESSES (SES-7814508 A01)*; 12 MONTHS $102,447

MCKELVEY, RICHARD D; *COLLABORATIVE RESEARCH ON A THEORETICAL AND EXPERIMENTAL ANALYSIS OF COMMITTEE COALITION PROCESSES (SES-7921588 A01)*; 12 MONTHS $54,372

FEREJOHN, JOHN A, FIORINA, MORRIS P, AND CAIN, BRUCE E; *A COMPARATIVE STUDY OF LEGISLATOR-CONSTITUENCY RELATIONS (SES-8010663)*; 24 MONTHS $154,328

CENTER FOR ADV STUDY IN THE BEHAVIORAL SCIENCE

LINDZEY, GARDNER, AND CUTLER, PRESTON S; *INTERDISCIPLINARY RESEARCH AT THE CENTER FOR ADVANCED STUDY IN THE BEHAVIORAL SCIENCES (BNS-7622943 A03*)*; 12 MONTHS $100,000

RAND CORPORATION

SHAPLEY, LLOYD S; *INVESTIGATIONS INTO POLITICAL SCIENCE USING METHODS OF GAME THEORY (SES-7723676 A01)*; $14,922

SMITH, JAMES P; *COLLABORATIVE RESEARCH ON BLACK/WHITE EARNINGS AND EMPLOYMENT (SES-7813754 A01)*; 12 MONTHS $55,340

STANFORD UNIVERSITY

HANNAN, MICHAEL T, AND TUMA, NANCY B; *SELECTION AND COMPETITION IN THE LIFE CYCLE OF ORGANIZATIONS (SES-7812315 A03)*; 12 MONTHS $117,038

ZELDITCH, MORRIS; *DETERMINANTS OF GROUP AGENDA-SETTING (SES-7817434 A01)*; 14 MONTHS $67,605

EAVES, B CURTIS; *COMPUTATION OF FIXED POINTS (MCS-7903145 A01*)*; 24 MONTHS $8,995

AMEMIYA, TAKESHI; *PROPERTIES OF ESTIMATORS OF THREE WIDELY USED ECONOMETRIC MODELS (SES-7912965)*; 12 MONTHS $59,258

ANDERSON, THEODORE W; *SIMULTANEOUS EQUATION MODELS - ESTIMATION, CONTROL AND PREDICTION (SES-7913976)*; 12 MONTHS $86,426

HAMMOND, PETER; *INCOMPLETE MARKETS AND INCOMPLETE ALLOCATION MECHANISMS (SES-7924831)*; 20 MONTHS $109,704

NOVSHEK, WILLIAM; *COLLABORATIVE RESEARCH ON FOUNDATIONS OF COMPETITIVE ANALYSIS (SES-7925690)*; 26 MONTHS $88,106

KREPS, DAVID; *ECONOMIES WITH A SEQUENCE OF MARKETS (SES-8004407)*; 24 MONTHS $92,838

KURZ, MORDECAI; *POWER, INFORMATION AND INCOME DISTRIBUTION - III (SES-8006654)*; 24 MONTHS $103,587

AMEMIYA, TAKESHI; *ECONOMETRIC METHODS FOR MODELS IN WHICH INSUFFICIENT INFORMATION PRECLUDES THE CONVENIENT APPLICATION OF PREVIOUSLY DEVELOPED TECHNIQUES (SES-8007576)*; 24 MONTHS $59,660

UNIVERSITY OF CALIFORNIA, BERKELEY

ADAMS, ERNEST W; *THE LOGIC OF LAWS WHICH ADMIT EXCEPTIONS (SES-7714517 A01)*; 12 MONTHS $9,356

HANSEN, BENT; *EMPLOYMENT, UNEMPLOYMENT AND WAGE DETERMINATION IN POOR AGRARIAN ECONOMIES (SES-7804022 A01)*; 12 MONTHS $73,668

GALE, DAVID; *EQUITABLE ALLOCATION OF RESOURCES (SES-7905196 A02)*; 12 MONTHS $38,988

HEILBRON, JOHN L; *THE INSTITUTIONALIZATION OF PHYSICS (SES-7816565 A01)*; 12 MONTHS $39,376

MARSCHAK, THOMAS A, AND OFSHE, RICHARD J; *INDICATORS OF TASTE CHANGE: THE CASE OF SHIFTS IN TIME USE AND CONSUMPTION PATTERNS (SES-7823775 A01)*; 3 MONTHS $16,051

MOSK, CARL A; *THE DECLINE IN POPULATION GROWTH RATES IN JAPAN AND SWEDEN (SES-7824407 A01)*; 12 MONTHS $20,000

DEBREU, GERARD; *MATHEMATICS OF EFFICIENT RESOURCE ALLOCATION (SES-7912390)*; 12 MONTHS $58,084

DIPALMA, GIUSEPPE; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-7912390)*; 16 MONTHS $1,470

BURT, RONALD S; *MEDICAL INNOVATION AND SOCIAL NETWORK POSITION (SES-7925738)*; 12 MONTHS $46,179

FRANKEL, JEFFREY A; *EVALUATING COMPETING ASSET-MARKET EXCHANGE RATE MODELS (SES-8007162)*; 12 MONTHS $30,050

WALKER, RICHARD A; *THE IMPACT OF TECHNOLOGICAL INNOVATION ON LABOR DEMAND AND INDUSTRIAL LOCATION (SES-8015553)*; 15 MONTHS $46,396

COLLIER, DAVID; *LABOR, PARTY AND REGIME IN LATIN AMERICA (SES-8017728)*; 19 MONTHS $117,517

UNIVERSITY OF CALIFORNIA, IRVINE

GROFMAN, BERNARD N; *CONFERENCE ON REPRESENTATION AND APPORTIONMENT JUNE, 1980, SAN DIEGO, CALIFORNIA (SES-7926813)*; 12 MONTHS $20,232

SKYRMS, BRIAN; *SECOND ORDER PROBABILITIES AND PROBABILITY DYNAMICS (SES-8007884)*; 12 MONTHS $43,939

GROFMAN, BERNARD N; *APPLICATIONS OF GAME THEORY TO THE STUDY OF POLITICAL INSTITUTIONS (SES-8007915)*; 24 MONTHS $31,301

UNIVERSITY OF CALIFORNIA, LOS ANGELES

BONACICH, PHILLIP, AND GRUSKY, OSCAR; *THE ROLE OF CHILDREN IN FAMILY COALITION FORMATION (SES-7807131 A02)*; 18 MONTHS $35,982

LEAMER, EDWARD E; *LIMITS FOR INFERENCES FROM NON-EXPERIMENTAL DATA (SES-7909477 A01)*; 24 MONTHS $101,960

WELCH, FINIS R; *COLLABORATIVE RESEARCH ON BLACK/WHITE EARNINGS AND EMPLOYMENT (SES-7907290 A01)*; 12 MONTHS $71,136

CLARK, WILLIAM A; *TESTING A MODEL OF INFORMATION USE IN A SPATIAL CONTEXT (SES-7925630)*; 18 MONTHS $39,533

MENKEL-MEADOW, CARRIE; *COLLABORATIVE RESEARCH ON ALLOCATING LEGAL RESOURCES IN A NON-MARKET CONTEXT (SES-8010373)*; 24 MONTHS $30,964

UNIVERSITY OF CALIFORNIA, RIVERSIDE

MEYER, MARSHALL W; *COMPARATIVE STUDY OF ORGANIZATIONS (SES-7907134)*; 18 MONTHS $93,686

UNIVERSITY OF CALIFORNIA, SAN DIEGO

CRAWFORD, VINCENT P; *THE ARBITRATION OF BARGAINING DISPUTES (SES-7905550 A01)*; 12 MONTHS $21,991

JACOBSON, GARY C; *NATIONAL EVENTS AND INDIVIDUAL VOTING BEHAVIOR IN CONGRESSIONAL ELECTIONS (SES-8007577)*; 15 MONTHS $54,486

ENGLE, ROBERT F, AND GRANGER, CLIVE W; *ECONOMETRIC MODELS WITH STOCHASTIC VARIANCE (SES-8008580)*; 27 MONTHS $190,711

MEADOW, ROBERT G; *COLLABORATIVE RESEARCH ON ALLOCATING LEGAL RESOURCES IN A NON-MARKET CONTEXT (SES-8011190)*; 24 MONTHS $57,994

SCHEIBER, HARRY N; *DOCTORAL DISSERTATION RESEARCH IN LAW AND SOCIAL SCIENCE (SES-8012671)*; 12 MONTHS $1,580

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

PURSELL, CARROLL W; *DOCTORAL DISSERTATION RESEARCH IN HISTORY AND PHILOSOPHY OF SCIENCE (SES-7921800)*; 12 MONTHS $3,600

BIELBY, WILLIAM T, AND BARON, JAMES N; *JOBS, FIRMS AND INDUSTRIES: ECONOMIC 'DUALISM' AND THE ORGANIZATION OF WORK (DAR-7924905*)*; 12 MONTHS $75,704

UNIVERSITY OF SOUTHERN CALIFORNIA

LASLETT, BARBARA; *DEMOGRAPHIC AND ECONOMIC DETERMINANTS OF FAMILY FORM AND FUNCTION (SES-7824409 A01)*; 12 MONTHS $43,272

VAN FRAASSEN, BAS C; *AN EMPIRICIST ACCOUNT OF PROBABILITY JUDGMENTS AND THEORY ACCEPTANCE (SES-8005827)*; 24 MONTHS $36,635

COLORADO

COLORADO STATE UNIVERSITY

DEITZ, SHEILA R; *CAUSAL ATTRIBUTION: MODELING JUROR DECISIONMAKING (SES-8012316)*; 24 MONTHS $101,251

UNIVERSITY OF DENVER

WELLHOFER, E SPENCER; *COMPARATIVE ANALYSIS OF STRATEGIES OF PARTY ORGANIZATION AND VOTER MOBILIZATION (SES-7925622)*; 24 MONTHS $89,805

CONNECTICUT

YALE UNIVERSITY

IWAI, KATSUHITO; *DISEQUILIBRIUM ECONOMIC DYNAMICS (SES-7727702 A02)*; 12 MONTHS $28,005

BALINSKI, MICHEL L; *MATHEMATICAL MODELING AND AXIOMATIZATION OF APPORTIONMENT SCHEMES AND OF GROUP DECISION DEVICES (MCS-7913140 A02*)*; 12 MONTHS $16,060

KLEIN, BARBARA V; *EXPLANATION AND THEORY IN COGNITIVE PSYCHOLOGY (SES-7925646)*; 19 MONTHS $32,643

SCARF, HERBERT E; *INDIVISIBILITIES IN PRODUCTION (SES-7927127)*; 12 MONTHS $82,885

BOORMAN, SCOTT A; *MATHEMATICAL MODELS OF SOCIAL NETWORKS MATCHING, EFFICIENCY, AND STRUCTURE (SES-8004815)*; 12 MONTHS $71,694

BROWN, DONALD J; *THE RATE OF INTEREST IN A PERFECT LOAN MARKET (SES-8007386)*; 24 MONTHS $64,251

PHILLIPS, PETER C; *SMALL SAMPLE DISTRIBUTION OF ECONOMETRIC STATISTICS (SES-8007571)*; 24 MONTHS $177,979

RUGGLES, RICHARD, AND RUGGLES, NANCY D; *DEVELOPMENT OF A RESEARCH DATA BASE: US MANUFACTURING ESTABLISHMENTS (SES-8011188)*; 12 MONTHS $183,030

KINDER, DONALD R, AND IYENGAR, SHANTO; *AN INFORMATION-PROCESSING ANALYSIS OF MEDIA AGENDA-SETTING (SES-8012581)*; 12 MONTHS $45,514

DELAWARE

ELEUTHERIAN MILLS-HAGLEY FOUNDATION

RINK, EVALD, AND GILCHRIST, DAVID T; *PUBLICATION: TECHNICAL AMERICANA (SES-7919675)*; 12 MONTHS $9,500

UNIVERSITY OF DELAWARE

THORNTON, JAMES R, BAIN, JAMES, AND MILLER, JEFFREY; *THE DYNAMICS OF THE SOVIET ENTERPRISE (SES-8003002)*; 12 MONTHS $30,672

FERGUSON, EUGENE S; *DOCTORAL DISSERTATION RESEARCH IN HISTORY OF SCIENCE (SES-8007899)*; 12 MONTHS $5,750

DISTRICT OF COLUMBIA

AMERICAN INSTITUTE OF ARCHITECTS (AIA)

HARRIS, CHARLES M; *SCIENTIFIC AND TECHNOLOGICAL ASPECTS OF THE PAPERS OF WILLIAM THORNTON (SES-7926740)*; 16 MONTHS $9,693

AMERICAN UNIVERSITY

MORRIS, CYNTHIA T; *INSTITUTIONAL CHANGE AND ECONOMIC GROWTH IN THE NINETEENTH CENTURY: A QUANTITATIVE STUDY (SES-7914243)*; 24 MONTHS $110,205

ASSOCIATION OF AMERICAN GEOGRAPHERS

REES, JOHN; *JOINT AMERICAN-BRITISH SEMINAR FOR COLLABORATIVE RESEARCH ON REGIONAL STAGNATION, JANUARY 5-7, 1980, UNITED KINGDOM (SES-7925038*)*; 6 MONTHS $6,456

REES, JOHN; *JOINT AMERICAN-BRITISH SEMINAR FOR COLLABORATIVE RESEARCH ON REGIONAL STAGNATION, JANUARY 1980, UNITED KINGDOM: SEPTEMBER 1980, NORTH CAROLINA (SES-7925038 A01)*; 6 MONTHS $3,452

BROOKINGS INSTITUTION

KAUFMAN, HERBERT; *EMPIRICAL STUDY OF GOVERNMENT EXECUTIVES (SES-7807677 A02)*; 12 MONTHS $63,396

PECHMAN, JOSEPH A; *CONFERENCE ON ECONOMIC EFFECTS OF TAXATION, OCTOBER, 1979 WASHINGTON, D.C. (SES-7910297)*; 12 MONTHS $19,975

BUREAU OF SOCIAL SCIENCE RESEARCH INC

WAINER, HOWARD; *SOCIAL SCIENCE APPLICATIONS OF DYNAMIC MULTIVARIATE DISPLAYS (SES-8008481*)*; 12 MONTHS $20,728

CATHOLIC UNIVERSITY OF AMERICA

WALLACE, WILLIAM A; *FOUNDATIONS OF MODERN SCIENCE (SES-7924825)*; 12 MONTHS $28,342

DEPARTMENT OF COMMERCE

DUNCAN, JOSEPH W; *INTERAGENCY CONSORTIUM ON NATIONAL STATISTICS (SES-8017507)*; 12 MONTHS $35,000

MATHEMATICAL ASSOCIATION OF AMERICA

ROSSER, J BARKLEY; *A FEASIBILITY STUDY FOR A HISTORY OF MATHEMATICS IN WORLD WAR II (SES-8009547)*; 6 MONTHS $10,410

NATIONAL ACADEMY OF SCIENCES

GOLDFIELD, EDWIN D; *STUDY OF SURVEY-BASED MEASURES OF SUBJECTIVE PHENOMENA (SES-7915317)*; 18 MONTHS $263,900

GOSLIN, DAVID A; *STUDY ASSESSING THE VALUE, SIGNIFICANCE AND SOCIAL UTILITY OF BASIC RESEARCH IN THE SOCIAL SCIENCES (PLN-7926467*)*; 24 MONTHS $300,000

POLICE FOUNDATION

SHERMAN, LAWRENCE W; *ORGANIZATIONAL MISCONDUCT: CONCEPTS, SCOPE, AND THEORY (SES-7925641)*; 15 MONTHS $54,198

RESOURCES FOR THE FUTURE INC

DUNN, EDGAR S; *PUBLICATION SUPPORT FOR RESEARCH ON THE DEVELOPMENT OF THE U. S. URBAN SYSTEM (SES-8014255)*; 6 MONTHS $10,000

FLORIDA

UNIVERSITY OF FLORIDA

MAGGIOTTO, M A, AND WITTKOPF, E R; *THE STRUCTURE OF FOREIGN POLICY ATTITUDES: A LONGITUDINAL STUDY OF MASS AND ELITE CHANGE (SES-8014984)*; 12 MONTHS $65,123

GEORGIA

UNIVERSITY OF GEORGIA

PANNELL, CLIFTON W, AND WELCH, ROY; *ANALYSIS OF LAND USE PRACTICES AND POLICIES FROM LANDSAT DATA (SES-8040696)*; 12 MONTHS $19,500

HAWAII

UNIVERSITY OF HAWAII-MANOA

FUCHS, ROLAND J; *COLLABORATIVE RESEARCH ON THE DEVELOPMENT OF THE SOVIET UNIFIED SETTLEMENT SYSTEM (SES-8002586)*; 24 MONTHS $36,102

ILLINOIS

EAST ASIAN HISTORY OF SCIENCES INC

NEEDHAM, JOSEPH; *SCIENCE AND CIVILIZATION IN CHINA (SES-7906589 A01)*; 12 MONTHS $42,500

LOYOLA UNIVERSITY OF CHICAGO

MERRILL, GARY H; *EXTENSIONS OF THE CONCEPT OF OBSERVATION IN SCIENCE (SES-8001931)*; 14 MONTHS $18,500

NATIONAL OPINION RESEARCH CENTER

DAVIS, JAMES A; *NORC GENERAL SOCIAL SURVEY FOR 1978, 1980, AND 1982 (SES-7703279 A02*)*; 12 MONTHS $379,559

DAVIS, JAMES A, AND SMITH, TOM W; *A PILOT STUDY OF INTERGENERATIONAL TRANSMITTANCES IN AMERICA (SES-7910327)*; 18 MONTHS $100,027

NEUMANN, GEORGE, AND KIEFER, NICHOLAS M; *EMPIRICAL TESTS OF SEARCH THEORETIC EXPLANATIONS OF UNEMPLOYMENT BEHAVIOR (SES-7912406)*; 24 MONTHS $137,513

ROSEN, SHERWIN; *INCENTIVE COMPENSATION SYSTEMS (SES-8006636)*; 12 MONTHS $56,160

MICHAEL, ROBERT T, AND BECKER, GARY S; *ECONOMIC ANALYSIS OF THE FAMILY (SES-8012187)*; 12 MONTHS $83,515

PAGE, BENJAMIN I; *POLICY CHANGE AND PUBLIC OPINION CHANGE (SES-8019085)*; 12 MONTHS $109,068

NORTHERN ILLINOIS UNIVERSITY

KLEPPNER, PAUL; *SOCIAL PREDICTORS OF PARTISANSHIP AND PARTICIPATION: MASSACHUSETTS AND RHODE ISLAND, 1893-1930 (SES-7714155 A01)*; 12 MONTHS $36,530

NORTHWESTERN UNIVERSITY

EISNER, ROBERT; *DISTRIBUTIONAL AND BEHAVIORAL IMPLICATIONS OF A COMPREHENSIVE INCOMES SYSTEM OF ACCOUNTS (SES-7717555 A02*)*; 24 MONTHS $201,001

PADEN, JOHN; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-7914275)*; 12 MONTHS $9,202

MILGROM, PAUL; *INFORMATION AND UNCERTAINTY IN COMPETITIVE BIDDING (SES-8001832)*; 24 MONTHS $69,701

COSSLETT, STEPHEN R; *METHODS OF ANALYZING SOME STRUCTURAL MODELS OF DISCRETE CHOICE (SES-8006405)*; 24 MONTHS $82,105

MORTENSEN, DALE T; *COLLABORATIVE RESEARCH ON INFORMATION UNCERTAINTY AND LABOR MARKET EQUILIBRIUM (SES-8006602)*; 24 MONTHS $87,254

ANAS, ALEX; *DEVELOPMENT AND EMPIRICAL TESTING OF DISEQUILIBRIUM MODELS OF PRICE ADJUSTMENT IN URBAN REAL ESTATE MARKETS (SES-8014256)*; 12 MONTHS $52,178

DESBARATS, J M; *SECONDARY MIGRATION OF INDOCHINESE REFUGEES: PATTERNS AND DETERMINANTS (SES-8014980)*; 12 MONTHS $25,000

JANDA, KENNETH; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-8019607)*; 12 MONTHS $6,100

SANGAMON STATE UNIVERSITY

DANIELS, STEPHEN; *CIVIL LITIGATION IN TRIAL COURTS: PATTERNS AND CHANGES (SES-8010988)*; 24 MONTHS $80,856

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

JACKSON, JOHN S; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-8007175)*; 15 MONTHS $4,038

UNIVERSITY OF CHICAGO

WALLACE, DAVID L, GOODMAN, LEO A, AND HABERMAN, SHELBY J; *STATISTICAL METHODOLOGY IN THE SOCIAL SCIENCES (SES-7680389 A03)*; 12 MONTHS $177,523

PARISH, WILLIAM L; *COLLABORATIVE RESEARCH ON URBAN LIFE IN THE PEOPLE'S REPUBLIC OF CHINA (SES-7707088 A03)*; $2,625

CARLTON, DENNIS W; *MICROECONOMIC DECISIONS ON BUSINESS LOCATION, PRICING, AND CONTRACT (SES-771 933 A01)*; 24 MONTHS $102,272

LUCAS, ROBERT E; *COLLABORATIVE RESEARCH ON BUSINESS CYCLE AND STABILIZATION THEORY (SES-7816543 A01)*; 12 MONTHS $64,661

MCCLOSKEY, DONALD N; *A CONFERENCE ON THE APPLICATION OF ECONOMICS TO HISTORY (MAY 15, 1980 UNIVERSITY OF CHICAGO) (SES-7900277 A01)*; 12 MONTHS $27,024

RUDOLPH, LLOYD I, AND RUDOLPH, SUSANNE H; *A COMPARATIVE ANALYSIS OF STATE FORMATION IN INDIA (SES-7907100 A01*)*; $735

MISHKIN, FREDERIC S; *EXPECTATIONS FORMATION IN MACROECONOMICS: EMPIRICAL ISSUES (SES-7912655)*; 24 MONTHS $57,169

ZELLNER, ARNOLD; *BAYESIAN INFERENCE AND MODELING TECHNIQUES IN ECONOMETRICS (SES-7913414)*; 12 MONTHS $59,759

HIRSCH, PAUL M, AND WHISLER, THOMAS L; *STRATEGIES OF CORPORATE BOARD BEHAVIOR (SES-7916526 A01)*; 12 MONTHS $97,229

DRAZEN, ALLAN; *THE EFFECTS OF SHORT-RUN RATIONING ON LONG-RUN CAPITAL ACCUMULATION (SES-7916527)*; 24 MONTHS $37,081

BOGUE, DONALD J; *INTERNAL MIGRATION AND LOCAL MOBILITY WITHIN METROPOLITAN AREAS (SES-7925634)*; 12 MONTHS $42,470

BROCK, WILLIAM A, AND SCHEINKMAN, JOSE A; *OPTIMAL GROWTH THEORY (SES-7926726)*; 12 MONTHS $85,248

WECKER, WILLIAM E; *COLLABORATIVE RESEARCH IN BAYESIAN INFERENCE AND MODELING TECHNIQUES IN ECONOMETRICS (SES-8004442)*; 36 MONTHS $36,514

ZONIS, MARVIN; *A LONGITUDINAL STUDY OF PERSONALITY AND POLITICAL IDEOLOGY (SES-8007234)*; 24 MONTHS $110,000

STIGLER, STEPHEN M; *THE DEVELOPMENT OF MATHEMATICAL STATISTICS (SES-8007482*)*; 12 MONTHS $15,965

DEBUS, ALLEN G; *THE EMERGENCE OF MODERN CHEMISTRY (SES-8008919)*; 12 MONTHS $13,140

LAUMANN, EDWARD O; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8008924)*; 12 MONTHS $2,826

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

FINE, ARTHUR I; *LOCALITY AND REALISM IN QUANTUM MECHANICS (SES-7925917)*; 24 MONTHS $27,273

DIAMOND, SHARI S; *MODELS OF DECISIONMAKING AMONG LAY AND LAWYER JUDGES (SES-8013079)*; 24 MONTHS $97,139

UNIVERSITY OF ILLINOIS AT URBANA

FERBER, ROBERT; *CONSUMER FINANCIAL BEHAVIOR (SES-7815121 A02)*; 12 MONTHS $21,772

SCHOEN, ROBERT; *CHANGES IN FAMILY STRUCTURE IN WESTERN NATIONS (SES-7925472)*; 18 MONTHS $91,198

MIRMAN, LEONARD J; *THE STUDY OF STRATEGIC BEHAVIOR AND FIXED COSTS IN DYNAMIC ECONOMIC MODELS (SES-7905900 A01)*; $14,322

HARSTAD, RONALD M, MURNIGHAN, J KEITH, SCHOUMAKER, FRANCOISE, AND ROTH, ALVIN E; *INTERACTIVE BEHAVIOR EXPERIMENTATION (SES-7915356)*; 12 MONTHS $60,459

SCHOUMAKER, FRANCOISE, HARSTAD, RONALD M, ROTH, ALVIN E, AND MURNIGHAN, J KEITH; *INTERACTIVE BEHAVIOR EXPERIMENTATION (SES-7915356 A01)*; 15 MONTHS $119,549

FORM, WILLIAM H; *WORKING-CLASS STRATIFICATION IN THE UNITED STATES (SES-7920053)*; 18 MONTHS $30,461

POSTLEWAITE, ANDREW; *GENERAL EQUILIBRIUM ALLOCATION MECHANISMS AND RISK AVERSION (SES-8007659)*; 12 MONTHS $38,884

HODGMAN, DONALD R; *POLITICAL ECONOMY OF MONETARY POLICY IN WESTERN EUROPE (SES-8008050*)*; 12 MONTHS $26,566

BOYCE, DAVID E; *DEVELOPMENT OF MULTIMODAL NETWORK EQUILIBRIUM MODELS OF URBAN LOCATION (SES-8014722)*; 12 MONTHS $51,000

KLUEGEL, JAMES R; *AMERICANS' BELIEFS ABOUT INEQUALITY (SES-8016995)*; 12 MONTHS $71,038

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

MULLINS, NICHOLAS C, AND HARGENS, LOWELL L; *THE SOCIAL STRUCTURE OF SCIENTIFIC SPECIALTIES (SES-7681770 A03)*; $20,153

BOHRNSTEDT, GEORGE W; *MINICOMPUTER SYSTEM FOR THE ANALYSIS OF TEXTUAL DATA (SES-7906646)*; 12 MONTHS $81,499

GIERE, RONALD N; *OBJECTIVE PRINCIPLES OF INFERENCE AND DECISION IN SCIENCE AND TECHNOLOGY (SES-7912964)*; 24 MONTHS $31,085

RIESELBACH, LEROY N; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-7912966)*; 22 MONTHS $6,314

OSTROM, ELINOR, PARKS, ROGER B, AND OSTROM, VINCENT; *URBAN RESOURCES, INSTITUTIONS, AND OUTCOMES (SES-7913397*)*; 18 MONTHS $90,632

HELLMAN, GEOFFREY P; *ULTIMATE PHYSICAL RANDOMNESS (SES-7924874)*; 24 MONTHS $31,405

GRANT, EDWARD; *SCIENTIFIC INERTIA: A STUDY OF RESISTANCE TO THEORETICAL CHANGE IN THE HISTORY OF COSMOLOGY (SES-7925723)*; 12 MONTHS $14,236

ODLAND, JOHN; *A MODEL OF THE GEOGRAPHIC SPREAD OF HOUSING DETERIORATION (SES-8006561)*; 15 MONTHS $30,000

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

MOORE, EDWARD C, AND FISCH, MAX; *AN EDITION OF THE WRITINGS OF CHARLES S. PIERCE (SES-7900897 A01)*; 12 MONTHS $33,929

PURDUE UNIVERSITY

WHINSTON, ANDREW B, AND KOEHLER, GARY J; *EXPLORATION OF PRINCIPAL-AGENT RELATIONSHIPS (SES-7916522)*; 24 MONTHS $87,566

UNIVERSITY OF NOTRE DAME

SLOAN, PHILLIP R; *THE DEVELOPMENT OF THE MODERN CONCEPT OF SPECIES (SES-7925113)*; 12 MONTHS $32,795

CROWE, MICHAEL J; *NON-FALSIFIABLE THEORIES IN THE HISTORY OF SCIENCE (SES-8007886)*; 19 MONTHS $38,025

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

FOX, KARL A; *MEASUREMENT & VALUATION OF SOCIAL SYSTEM OUTCOMES (SES-7820084 A04)*; 4 MONTHS $21,976

PLAKANS, ANDREJS; *THE KINSHIP CONTENT OF SOCIO-ECONOMIC TRANSACTIONS IN PREMODERN EUROPE (BNS-7926704*)*; 36 MONTHS $45,000

UNIVERSITY OF IOWA

MCNULTY, MICHAEL L, AND RUSHTON, GERARD; *A COMPARATIVE ANALYSIS OF THE LOCATIONAL EFFICIENCY OF RURAL SERVICE DELIVERY SYSTEMS (SES-7925069*)*; 24 MONTHS $123,996

LEVIN, IRWIN P; *THE EFFECTS OF INCREASING COMMUTING COSTS ON RESIDENTIAL LOCATION DECISIONS (SES-7925115)*; 13 MONTHS $9,156

PATTERSON, SAMUEL C; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-8005138)*; 12 MONTHS $2,500

REYNOLDS, DAVID R; *THE EFFECT OF POLITICAL INSTITUTIONAL STRUCTURES ON THE PROVISION OF PUBLIC SERVICES AND LOCATIONAL CONFLICT RESOLUTION (SES-8015084*)*; 12 MONTHS $27,300

ICHIISHI, TATSURO; *GAME THEORY IN ECONOMIC MODELS (SES-8019043)*; 18 MONTHS $12,000

KANSAS

UNIVERSITY OF KANSAS CENTRAL OFFICE

JOHNSON, WILLIAM C; *EQUIPMENT REQUEST FOR PHYSICAL GEOGRAPHY RESEARCH LABORATORY FACILITIES (SES-7923693)*; 12 MONTHS $22,889

UNIVERSITY OF KANSAS MAIN CAMPUS

SHAFER, GLENN R; *STUDIES IN PROBABLE AND STATISTICAL INFERENCE (MCS-8002213*)*; 36 MONTHS $17,000

BARON, FRANK; *FOUNDATIONS OF MODERN CHEMICAL METHOD (SES-8009546)*; 12 MONTHS $10,000

KENTUCKY

UNIVERSITY OF KENTUCKY

ULMER, S SIDNEY; *AGENDA SETTING: THE DYNAMICS OF ISSUE SELECTION AND JURISDICTIONAL CONTROLS IN THE UNITED STATES SUPREME COURT (SES-7726066 A01)*; 19 MONTHS $103,259

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

HUCKFELDT, R; *POLITICAL ASSIMILATION AND CONFLICT IN URBAN CONTEXTS (SES-8014231*)*; 12 MONTHS $31,746

TULANE UNIVERSITY

BRITO, DAGOBERT L; *COLLABORATIVE RESEARCH ON BEHAVIORAL AND ECONOMIC FOUNDATIONS OF ARMS RACES (SES-7926721*)*; 12 MONTHS $19,072

BRITO, DAGOBERT L; *COLLABORATIVE RESEARCH ON DYNAMIC STRATEGY MODELS FOR INTERNATIONAL ECONOMIC POLICY (SES-7927298)*; 12 MONTHS $24,099

MAINE

BOWDOIN COLLEGE

MC EWEN, CRAIG A; *THE MEDIATION OF SMALL CLAIMS DISPUTES: AN EMPIRICAL ASSESSMENT (SES-7906872 A01)*; $19,488

MARYLAND

JOHNS HOPKINS UNIVERSITY

CHASE-DUNN, CHRISTOPH; *WORLD DIVISION OF LABOR AND THE DEVELOPMENT OF CITY SYSTEMS: A LONGITUDINAL CROSS-NATIONAL STUDY (SES-7825071 A01)*; 12 MONTHS $36,888

KATZ, RICHARD S; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-7920284)*; 18 MONTHS $8,346

ST JOHN'S COLLEGE

WILSON, CURTIS A; *THE PROCESSES OF 'SCIENTIFIC REVOLUTION' IN SOLAR, LUNAR, AND PLANETARY ASTRONOMY (SES-8008591)*; 12 MONTHS $33,322

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

COHEN, JERE M; *PEER INFLUENCE ON ASPIRATIONS (SES-7924107)*; 12 MONTHS $12,115

HERBERT, SANDRA S; *AN EDITION OF CHARLES DARWIN'S NOTEBOOK A (SES-7926110)*; 8 MONTHS $20,965

UNIVERSITY OF MARYLAND, COLLEGE PARK

HAUSMAN, DANIEL M; *CAUSAL JUDGMENTS IN ECONOMICS (SES-8007385)*; 14 MONTHS $27,530

MASSACHUSETTS

BOSTON COLLEGE

ANDERSON, JAMES E; *RELATIVE COSTS OF TARIFFS AND QUOTAS (SES-7907085)*; 12 MONTHS $25,072

BOSTON UNIVERSITY

LAKSHMANAN, T R; *A MULTI REGIONAL MODEL FOR ANALYZING RELATIONSHIPS BETWEEN ECONOMIC DEVELOPMENT, ENVIRONMENTAL POLLUTION AND ENERGY DEMAND (SES-7822020 A01)*; 13 MONTHS $49,941

USEEM, MICHAEL; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-7912963)*; 18 MONTHS $3,855

HAWKINS, THOMAS W; *THE ORIGINS OF THE REPRESENTATION THEORY OF CONTINUOUS GROUPS IN MATHEMATICS (SES-8008149)*; 24 MONTHS $44,604

BRANDEIS UNIVERSITY

DAVIS, MARVIN; *LEGAL USE AND LEGAL CHANGE (BNS-7924740*)*; 15 MONTHS $30,780

SCHWEBER, SILVAN S; *HISTORY OF QUANTUM FIELD THEORY 1945-1952 (SES-8008660)*; 24 MONTHS $21,896

CLARK UNIVERSITY

KATES, ROBERT W; *DOCTORAL DISSERTATION RESEARCH IN GEOGRAPHY AND REGIONAL SCIENCE (SES-8017712)*; 12 MONTHS $7,500

HARVARD UNIVERSITY

MOSTELLER, FREDERICK; *STUDIES OF QUANTITATIVE METHODS IN THE SOCIAL SCIENCES (SES-7515702 A05)*; 12 MONTHS $103,347

GRILICHES, ZVI; *ECONOMETRIC STUDIES OF HUMAN RESOURCES AND TECHNOLOGICAL CHANGE (SES-7804279 A02)*; $16,095

GRILICHES, ZVI; *ECONOMETRIC STUDIES OF HUMAN RESOURCES AND TECHNOLOGICAL CHANGE (SES-7804279 A03)*; 12 MONTHS $129,868

SARRA, A I; *THE DEVELOPMENT OF OPTICS AS A SCIENCE (SES-7808003 A01)*; 12 MONTHS $15,546

SPENCE, A MICHAEL; *INDUSTRY DYNAMICS (SES-7821016 A01)*; 12 MONTHS $50,926

LAZONICK, WILLIAM H, AND MARGLIN, STEPHEN A; *INDUSTRIAL RELATIONS, TECHNOLOGY, AND LABOR PRODUCTIVITY (SES-7825671 A01)*; $19,808

HIBBS, DOUGLAS A; *COMPARATIVE STUDIES IN POLITICAL ECONOMY (SES-7827022 A01*)*; 12 MONTHS $78,572

BERRY, BRIAN J L; *COUNTERVAILING POPULATION REDISTRIBUTION: FACTORS INFLUENCING INNER-CITY REVITALIZATION (SES-7909370 A01)*; 12 MONTHS $119,567

BLANCHARD, OLIVIER J; *MACROECONOMIC DYNAMICS (SES-7916198)*; 18 MONTHS $41,330

HIEBERT, ERWIN N; *DOCTORAL DISSERTATION RESEARCH IN HISTORY AND PHILOSOPHY OF SCIENCE (SES-7921907)*; 12 MONTHS $2,740

WISE, DAVID A; *ESTIMATION AND ANALYSIS OF THE EFFECTS OF HOUSING EXPENDITURE AND INCOME MAINTENANCE PROGRAMS (SES-8007165)*; 24 MONTHS $94,184

WHITE, HARRISON C, AND BREIGER, RONALD L; *MARKETS & ORGANIZATIONS: APPLYING MATHEMATICAL MODELS TO SOCIAL STRUCTURES & PROCESSES (SES-8006658)*; 12 MONTHS $92,022

BLACK, DONALD; *THE INFLUENCE OF SOCIAL STRUCTURE ON SANCTIONS (SES-8011034)*; 12 MONTHS $50,814

MURDOCH, JOHN E; *DOCTORAL DISSERTATION RESEARCH IN HISTORY AND PHILOSOPHY OF SCIENCE (SES-8020578)*; 9 MONTHS $400

HURON INSTITUTE INC

RAINWATER, LEE, AND JENCKS, CHRISTOPH E; *WORKER ASSESSMENTS OF JOB'S NON-MONETARY CHARACTERISTICS (SES-8024529*)*; 18 MONTHS $45,746

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

KUH, EDWIN; *THE RELIABILITY OF ECONOMIC MODELS (MCS-7726902 A04*)*; 12 MONTHS $142,543

ETHEREDGE, LLOYD S; *THE ANALYSIS OF LEARNING IN BUREAUCRACIES: PROCESSES AND BARRIERS (SES-7727470 A01)*; 6 MONTHS $2,400

DIAMOND, PETER A; *UNCERTAINTY AND PUBLIC POLICY (SES-7800587 A02)*; 12 MONTHS $35,398

FODOR, JERRY A; *PHILOSOPHICAL FOUNDATIONS OF COMPUTATIONAL PSYCHOLOGY (SES-7905949)*; 12 MONTHS $37,967

TAYLOR, LANCE; *COLLABORATIVE RESEARCH: STAPLE FOODS IN SEMI-INDUSTRIALIZED COUNTRIES (SES-7914208)*; 24 MONTHS $133,539

HAUSMAN, JERRY A; *ISSUES IN ECONOMETRIC SPECIFICATION AND TESTING AND THE EFFECT OF TAXES ON LABOR SUPPLY (SES-7924108)*; 24 MONTHS $111,977

FARBER, HENRY S; *ECONOMICS OF LABOR UNIONS (SES-7924880)*; 24 MONTHS $79,650

MODIGLIANI, FRANCO; *THE MONETARY MECHANISM AND STABILIZATION POLICY (SES-7926733)*; 24 MONTHS $150,091

NATIONAL BUREAU OF ECONOMIC RESEARCH INC

SHOVEN, JOHN B; *BUSINESS FINANCE AND TAXATION (SES-7807417 A01)*; 24 MONTHS $124,134

GORDON, ROBERT J; *GOVERNMENT-INDUCED SUPPLY SHIFTS AS A SOURCE OF INFLATION (SES-7813765 A01)*; 12 MONTHS $66,094

HALL, ROBERT E; *EMPIRICAL RESEARCH ON ECONOMIC FLUCTUATIONS (SES-7825471 A01)*; 12 MONTHS $68,997

BARRO, ROBERT J; *MONEY, PUBLIC DEBT, EXPECTATIONS, AND ECONOMIC ACTIVITY (SES-7825475 A01)*; 12 MONTHS $71,601

MCLURE, CHARLES E; *NBER SUMMER INSTITUTE IN APPLIED ECONOMICS; JULY - AUGUST, 1980; CAMBRIDGE, MASSACHUSETTS (SES-7826683 A01)*; 12 MONTHS $119,896

SHILLER, ROBERT J; *SPECULATIVE MARKETS, OBLIGATIONAL MARKETS AND MACROECONOMIC FLUCTUATIONS (SES-7907561 A01)*; $27,404

MCLURE, CHARLES E; *CONFERENCES ON RESEARCH IN INCOME AND WEALTH; APRIL 1981 (PA) - FALL 1981 (DC) (SES-7914204)*; 24 MONTHS $48,101

KING, MERVYN A; *BUSINESS FINANCE AND TAXATION (SES-7914209)*; 24 MONTHS $88,189

FROMM, GARY; *CONFERENCE SERIES ON ECONOMETRICS AND MATHEMATICAL ECONOMICS, 1980-1981 (SES-7916190)*; 18 MONTHS $135,612

ZARNOWITZ, VICTOR; *FORECASTING BEHAVIOR AND PERFORMANCE OF ECONOMETRIC MODELS (SES-7920361)*; 24 MONTHS $114,204

LIPSEY, ROBERT E, AND KRAVIS, IRVING B; *EXPORT GROWTH, EXPORT PRICES AND THE SUPPLY OF EXPORTS (SES-7925724)*; 24 MONTHS $201,751

STIGLITZ, JOSEPH E; *INFORMATION, INNOVATION, AND MARKET STRUCTURE (SES-7926751)*; 12 MONTHS $61,997

STIGLITZ, JOSEPH E; *INFORMATION, INNOVATION, AND MARKET STRUCTURE (SES-7926751 A01)*; 12 MONTHS $11,299

KRUGMAN, PAUL R; *SCALE ECONOMIES, PRODUCT DIFFERENTIATION, AND INTERNATIONAL TRADE (SES-8006225)*; 24 MONTHS $67,001

MARSTON, RICHARD C; *ANALYSIS OF AN EXCHANGE-RATE UNION: THE EUROPEAN MONETARY SYSTEMS (SES-8006414)*; 24 MONTHS $47,277

LANDES, WILLIAM M, AND POSNER, RICHARD A; *THE ECONOMICS OF TORT LAW AND LEGAL PRECEDENTS (SES-8006565)*; 12 MONTHS $68,736

ROTHSCHILD, MICHAEL, AND WILSON, CHARLES; *IMPLICATIONS OF DYNAMICS AND IMPERFECT INFORMATION FOR ECONOMIC THEORY (SES-8007001)*; 12 MONTHS $89,888

UNIVERSITY OF MASSACHUSETTS, AMHERST

HARDEGREE, GARY M; *FOUNDATIONS OF QUANTUM MECHANICS: STUDIES IN FORMAL AND MATERIAL QUANTUM LOGIC (SES-8006417)*; 24 MONTHS $18,128

UNIVERSITY OF MASSACHUSETTS, BOSTON

PAUL, DIANE B; *LYSENKOISM IN THE WEST (SES-8008661)*; 12 MONTHS $18,282

WELLESLEY COLLEGE

MERRY, SALLY E, AND SILBEY, SUSAN S; *LEGITIMACY AND COERCION IN INFORMAL COMMUNITY JUSTICE (SES-8012034*)*; 27 MONTHS $28,960

MICHIGAN

MICHIGAN STATE UNIVERSITY

MOE, TERRY M; *LONGITUDINAL ANALYSIS OF INDEPENDENT REGULATORY COMMISSIONS (SES-8015072)*; 24 MONTHS $61,936

SILVER, BRIAN D; *COLLABORATIVE RESEARCH ON LANGUAGE POLICY AND ETHNIC IDENTITY CHANGE IN THE U. S. S. R. (SES-8015074)*; 24 MONTHS $75,580

UNIVERSITY OF MICHIGAN

TILLY, CHARLES; *COLLECTIVE ACTION IN LARGE-SCALE SOCIAL CHANGE (SES-7608790 A04)*; 12 MONTHS $131,938

MILLER, WARREN E; *LONG TERM SUPPORT FOR THE AMERICAN NATIONAL ELECTION STUDIES (SES-7708885 A04)*; 12 MONTHS $876,418

KINGDON, JOHN W; *PRE-DECISION PUBLIC POLICY PROCESSES (SES-7805153 A02)*; 12 MONTHS $24,459

MORGAN, JAMES N, AND DUNCAN, GREG J; *THE PANEL STUDY OF FAMILY INCOME DYNAMICS (SES-7818535 A01*)*; 12 MONTHS $358,945

LARIMORE, ANN E; *DOCTORAL DISSERTATION RESEARCH IN GEOGRAPHY (SES-7823945 A01)*; $880

BURKS, ARTHUR W, AND HOLLAND, JOHN H; *FORMAL AND INTERDISCIPLINARY STUDIES OF ADAPTIVE AND COMPUTING SYSTEMS 1979-1982 (MCS-7826016 A01*)*; 12 MONTHS $10,000

INGLEHART, RONALD F; *CLEAVAGE AND CONSENSUS AMONG EUROPEAN ELITES AND PUBLICS (SES-7914619 A01)*; 12 MONTHS $43,132

CLUBB, JEROME M; *EQUIPMENT ACQUISITION FOR THE INTER-UNIVERSITY CONSORTIUM FOR POLITICAL AND SOCIAL RESEARCH (SES-7919156)*; 12 MONTHS $473,945

MOOTS, BARON L; *RURAL DEVELOPMENT AND POPULATION CHANGE (SES-7922756)*; 24 MONTHS $57,048

VARIAN, HAL R; *PRICE DISCRIMINATION AND SOCIAL WELFARE (SES-7922797)*; 18 MONTHS $51,436

TILLY, CHARLES; *SPECIALIZED GRAPHICS AND COMPUTING EQUIPMENT FOR SOCIOLOGY (SES-7923141)*; 12 MONTHS $24,901

TILLY, CHARLES; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8002004)*; 12 MONTHS $9,955

WALKER, JACK L; *ORIGINS AND MAINTENANCE OF INTEREST GROUPS IN THE AMERICAN POLITICAL SYSTEM (SES-8006439)*; 16 MONTHS $107,584

BERGSTROM, THEODORE C, AND SHAPIRO, PERRY; *DEMAND FOR LOCAL GOVERNMENT EXPENDITURES (SES-8006564*)*; 12 MONTHS $54,742

BLUME, LAWRENCE E; *LEARNING DYNAMICS AND ECONOMIC MODELS (SES-8006988)*; 24 MONTHS $57,985

MARKUS, GREGORY B; *THE IMPACT OF THE PRESIDENTIAL ELECTION CAMPAIGN ON PUBLIC ATTITUDES (SES-8014237)*; 18 MONTHS $44,539

GAMSON, WILLIAM A, AND MODIGLIANI, ANDRE; *POLITICAL CULTURE AND POLITICAL COGNITION (SES-8016420*)*; 24 MONTHS $146,202

JACKSON, JOHN E; *POLITICAL PARTY BEHAVIOR AND THE AMERICAN ELECTORATE (SES-8023332)*; 12 MONTHS $26,287

MINNESOTA

CARLETON COLLEGE

SULLIVAN, DANIEL; *QUANTITATIVE SOCIAL AND HISTORICAL STUDIES OF PARTICLE PHYSICS (SES-8008944*)*; 14 MONTHS $23,608

UNIVERSITY OF MINNESOTA

HURWICZ, LEONID; *COMPARISON AND ANALYSIS OF SYSTEMS AND TECHNIQUES OF ECONOMIC ORGANIZATIONS (SES-7825734 A01)*; 12 MONTHS $107,261

HOLT, CHARLES A; *SIGNALLING AUCTION MARKETS (SES-7925694)*; 24 MONTHS $59,631

CHIPMAN, JOHN S, AND MOORE, JAMES C; *WELFARE CRITERIA AND THE THEORY OF AGGREGATION (SES-7924818)*; 24 MONTHS $151,226

LAYTON, EDWIN T; *DOCTORAL DISSERTATION RESEARCH IN HISTORY AND PHILOSOPHY OF SCIENCE (SES-8002005)*; 12 MONTHS $5,000

TICHENOR, PHILLIP J; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8004480)*; 12 MONTHS $2,045

LEE, LUNG-FEI; *ECONOMETRIC MODELS WITH DESCRETE DEPENDENT VARIABLES (SES-8006481)*; 24 MONTHS $75,000

THOMSON, WILLIAM; *THE MANIPULABILITY OF RESOURCE ALLOCATION MECHANISMS (SES-8006482)*; 24 MONTHS $55,232

CHIPMAN, JOHN S; *ECONOMETRIC RESEARCH IN INTERNATIONAL TRADE (SES-8008047)*; 24 MONTHS $114,535

GALASKIEWICZ, JOSEPH; *THE RESOURCE MARKETS OF NONPROFIT SERVICE ORGANIZATIONS (SES-8008570)*; 24 MONTHS $69,989

BROWN, DWIGHT A; *DEVELOPMENT OF AN OPAL PHYTOLITH KEY FOR THE PALEOGEOGRAPHIC ANALYSIS OF GRASSLAND VEGETATION (SES-8014246)*; 12 MONTHS $23,793

UNIVERSITY OF MINNESOTA AT SAINT PAUL

WASSERMAN, STANLEY S; *STRUCTURAL MODELS FOR MULTIPLE SOCIOMETRIC RELATIONS (SES-7826075 A01)*; 12 MONTHS $39,071

RICHTER, MARCEL K; *TRANSFER METHODS FOR LARGE ECONOMIES (SES-7913979)*; 24 MONTHS $93,392

ITO, TAKATOSHI; *THEORY AND EMPIRICAL APPLICATIONS OF DISEQUILIBRIUM DYNAMIC MODELS (SES-8006473)*; 24 MONTHS $65,000

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

FRANCIS, WAYNE L; *COMMITTEE DECISION MAKING IN U.S. STATE LEGISLATURES (SES-8006475)*; 24 MONTHS $90,572

UNIVERSITY OF MISSOURI, ST LOUIS

JONES, RUTH S; *THE IMPACT OF STATE PUBLIC CAMPAIGN FINANCE POLICIES (SES-7925701*)*; 12 MONTHS $45,253

WASHINGTON UNIVERSITY

ALLEN, GARLAND E; *THE HISTORY OF GENETICS AND EUGENICS (SES-7521902 A02)*; 8 MONTHS $7,405

RATCLIFF, RICHARD E; *NETWORKS OF ECONOMIC AND SOCIAL PROMINENCE: A COMMUNITY STUDY (SES-7718036 A01)*; $7,539

ALT, JAMES E; *POLITICAL MODELS OF MACROECONOMIC POLICY: POPULAR EXPECTATIONS AND GOVERNMENT FISCAL REACTIONS (SES-8006488)*; 25 MONTHS $139,979

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

LEARY, DAVID E; *THE DEVELOPMENT OF MODERN PSYCHOLOGY IN GERMANY, 1780-1880 (SES-8008051)*; 18 MONTHS $19,395

NEW JERSEY

PRINCETON UNIVERSITY

JEFFREY, RICHARD C; *CAUSALITY AND DECISION (SES-7909673 A01)*; 24 MONTHS $44,916

SONNENSCHEIN, HUGO F; *COLLABORATIVE RESEARCH ON FOUNDATIONS OF COMPETITIVE ANALYSIS (SES-7924830)*; 12 MONTHS $93,865

DENARDO, JAMES D; *FORMAL MODELING OF PROTEST STRATEGIES (SES-7925668)*; 12 MONTHS $28,925

BILLINGTON, DAVID P; *ROBERT MAILLART AND THE ORIGINS OF MODERN CONCRETE STRUCTURES (SES-7927125)*; 36 MONTHS $32,000

SMALL, KENNETH A, AND BROWNSTONE, DAVID; *QUALITATIVE CHOICE ANALYSIS AND TRIP TIMING BEHAVIOR (SES-8007010)*; 14 MONTHS $50,982

PRINCETON UNIVERSITY PRESS

BAILEY, HERBERT S; *ORGANIZATION OF THE EINSTEIN ARCHIVE (SES-7818236 A01)*; $2,400

RUTGERS UNIVERSITY-NEWARK CAMPUS

TROY, LEO; *TRADE UNIONS IN THE SERVICE ECONOMY (SES-7914083)*; 12 MONTHS $34,958

RUTGERS UNIVERSITY

BOXER, BARUCH; *ENVIRONMENTAL SCIENCE AND POLICY IN THE PEOPLE'S REPUBLIC OF CHINA (SES-8007573)*; 18 MONTHS $50,000

NEW MEXICO

UNIVERSITY OF NEW MEXICO

JOHNSON, PEDER J, TEITELBAUM, LEE E, AND SUTTON-BARBERE , GALE; *MODELING JURY DELIBERATION AND THE EFFECTS OF LEGAL RULES (SES-8011696)*; 24 MONTHS $129,756

NEW YORK

AMERICAN COUNCIL OF LEARNED SOCIETIES

BURKHARDT, FREDERICK; *A CALENDAR OF THE DARWIN CORRESPONDENCE, 1822-1882 (SES-7682775 A03)*; 6 MONTHS $3,500

BURKHARDT, FREDERICK; *EDITION OF THE CORRESPONDENCE OF CHARLES DARWIN (SES-7912492)*; 12 MONTHS $44,328

AMERICAN INSTITUTE OF PHYSICS

WEART, SPENCER R; *THE INFLUENCE OF EDUCATION ON SCIENTIFIC METHOD: THE CASE OF THE CURIE CIRCLE (SES-7925007)*; 12 MONTHS $18,982

WEART, SPENCER R; *HENRY NORRIS RUSSELL AND MODERN STELLAR ASTRONOMY (SES-7926753)*; 36 MONTHS $22,007

BARUCH COLLEGE

STONE, IRVING; *THE GLOBAL EXPORT OF CAPITAL FROM GREAT BRITAIN, 1865-1914 (SES-7813404 A01)*; 6 MONTHS $20,000

CENTER FOR POLICY RESEARCH INC

PERROW, CHARLES B; *ACCIDENTS IN HIGH RISK SYSTEMS (SES-8014723)*; 10 MONTHS $82,024

COLUMBIA UNIVERSITY

SINGER, ELEANOR; *EFFECTS OF INFORMED CONSENT ON RESPONSE RATE AND RESPONSE QUALITY IN TELEPHONE SURVEYS (SES-7819707 A01)*; $35,050

POLEMARCHAKIS, HERAKLIS; *RATIONALITY, OBSERVABILITY AND INDETERMINACY (SES-7825910 A01)*; 24 MONTHS $55,678

LEVI, ISAAC; *SCIENTIFIC INQUIRY AND THE GROWTH OF KNOWLEDGE (SES-7907022)*; 24 MONTHS $34,971

CHICHILNISKY, GRACIELA; *COLLABORATIVE RESEARCH: STAPLE FOODS IN SEMI-INDUSTRIALIZED COUNTRIES (SES-7914050)*; 24 MONTHS $96,470

TAYLOR, JOHN B; *ECONOMETRIC EVALUATION OF STABILIZATION POLICY USING RATIONAL EXPECTATIONS (SES-7926724)*; 12 MONTHS $42,582

MERTON, ROBERT K; *THEORETICAL SOCIOLOGY: UNINTENDED CONSEQUENCES AND THE SELF-FULFILLING PROPHECY (SES-7927238)*; 12 MONTHS $51,826

SELDEN, LARRY; *TIME PREFERENCES, CONDITIONAL RISK PREFERENCES AND MULTIPERIOD DECISION THEORY (SES-8007100)*; 12 MONTHS $34,658

ZUCKERMAN, HARRIET, AND COLE, JONATHAN R; *CAREER PATTERNS IN SCIENTIFIC RESEARCH PERFORMANCE (SES-8008609)*; 12 MONTHS $118,190

HANCE, WILLIAM A; *DOCTORAL DISSERTATION RESEARCH IN GEOGRAPHY AND REGIONAL SCIENCE (SES-8016418)*; 9 MONTHS $6,770

CORNELL UNIVERSITY

MAJUMDAR, MUKUL K; *THEORY OF INTERTEMPORAL ALLOCATION, EXHAUSTIBLE RESOURCES AND UNCERTAINTY (SES-7906540 A01)*; 12 MONTHS $46,168

ISARD, WALTER; *THEORY OF SPATIAL BEHAVIOR (SES-7919457 A01)*; $10,994

ISARD, WALTER; *DYNAMICS OF SPATIAL INTERACTION (SES-7919457 A02)*; 12 MONTHS $49,913

PROVINE, WILLIAM B; *GENETICS IN RELATION TO EVOLUTION: THE EVOLUTIONARY SYNTHESIS (SES-7926738)*; 19 MONTHS $49,988

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

MC GINNIS, ROBERT; *NETWORKS OF BASIC AND APPLIED RESEARCH COMMUNITIES IN AGRICULTURAL SCIENCE (SES-7826163 A01)*; 12 MONTHS $84,747

MAJUMDAR, MUKUL K; *INTERTEMPORAL ALLOCATION: UNCERTAINTY AND MONEY (SES-8006223)*; 24 MONTHS $32,160

CUNY GRADUATE SCHOOL AND UNIVERSITY CENTER

VANEK, JOANN; *IPA MOBILITY ASSIGNMENT (JOANN VANEK) (SES-7827424 A01)*; 12 MONTHS $2,944

VANEK, JOANN; *IPA MOBILITY ASSIGNMENT (JOANN VANEK) (SES-7923723)*; 12 MONTHS $34,303

VANEK, JOANN; *IPA MOBILITY ASSIGNMENT (JOANN VANEK) (SES-7923723 A01)*; 12 MONTHS $2,447

EISENHOWER COLLEGE

PARADOWSKI, ROBERT J; *THE SCIENTIFIC WORK OF LINUS PAULING (SES-8007509)*; 24 MONTHS $14,289

HOFSTRA UNIVERSITY

STERN, NANCY; *JOHN VON NEUMANN AND IAS COMPUTERS (SES-7918525)*; 24 MONTHS $23,269

NEW YORK UNIVERSITY

MACHLUP, FRITZ; *THE CREATION, DISTRIBUTION AND ECONOMIC SIGNIFICANCE OF KNOWLEDGE (SES-7914210)*; 24 MONTHS $109,719

ALTMAN, EDWARD I, AND WHITE, MICHELLE J; *CORPORATE BANKRUPTCY: LEGAL, ECONOMICS AND PUBLIC POLICY ISSUES (SES-7924828)*; 15 MONTHS $47,026

KING, DAVID A; *STUDIES IN THE EXACT SCIENCES IN MEDIEVAL ISLAM (SES-8007145)*; 24 MONTHS $30,000

DURBIN, ELIZABETH; *THE DEVELOPMENT OF THE THEORY OF THE MIXED ECONOMY (SES-8012666)*; 12 MONTHS $44,992

QUEENS COLLEGE

GOLDNER, FRED H; *ORGANIZATIONAL PROCESSES IN THE POLITICAL ECONOMY OF HEALTH CARE (SES-8008931)*; 12 MONTHS $31,139

SOCIAL SCIENCE RESEARCH COUNCIL

PREWITT, KENNETH; *CENTER FOR COORDINATION OF RESEARCH ON SOCIAL INDICATORS (SES-7721686 A03)*; 12 MONTHS $643,127

STATE UNIVERSITY AT ALBANY

BROWN, M CRAIG; *COLLABORATIVE RESEARCH ON THE BUREAUCRATIZATION OF EMPLOYMENT RELATIONS (SES-7905548 A01)*; 12 MONTHS $43,008

HOFFMAN, ERIK P, AND LAIRD, ROBBIN F; *THE IMPACT OF TECHNOLOGICAL CHANGE ON INTERNATIONAL RELATIONS: SOVIET TECHNOLOGY AND FOREIGN POLICY (SES-7912629)*; 24 MONTHS $74,819

HENDERSON, FLOYD M; *DIGITAL IMAGE ANALYSIS EQUIPMENT (SER-8004413)**; 30 MONTHS $6,000

STATE UNIVERSITY AT BINGHAMTON

WALLERSTEIN, IMMANUEL; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8007176)*; 20 MONTHS $3,700

STATE UNIVERSITY AT BUFFALO

MCCONNELL, JAMES E; *INVESTMENT STRATEGIES AND LOCATIONAL DYNAMICS OF EUROPEAN AND CANADIAN SUBSIDIARIES IN THE UNITED STATES (SES-7824398 A01)*; 12 MONTHS $25,969

ROSS, H L, AND THOMAS, JOHN M; *ALTERNATIVE MODELS OF REGULATORY ENFORCEMENT IN HOUSING (SES-8010989)**; 12 MONTHS $40,000

STATE UNIVERSITY AT STONY BROOK

LOGAN, JOHN R, AND SCHNEIDER, MARK; *THE POLITICAL ECONOMY OF SUBURBAN GROWTH (SES-7705600 A01)*; 18 MONTHS $98,378

LODGE, MILTON, AND TANENHAUS, JOSEPH; *THE EXPERIMENTAL ANALYSIS OF POLITICAL CONCEPTS (SES-7735539 A02)*; 12 MONTHS $98,950

RACHLIN, HOWARD C; *REINFORCEMENT AND PUNISHMENT IN A CLOSED SYSTEM (BNS-7809085 A01)**; 12 MONTHS $28,861

HAUSE, JOHN C; *ECONOMIC DETERMINANTS OF SURVIVAL OF MANUFACTURING CARTEL AGREEMENTS (SES-7927217)*; 24 MONTHS $78,882

WOODERS, MYRNA; *COOPERATIVE BEHAVIOR AND PRICES IN LARGE ECONOMIES (SES-8006356)*; 12 MONTHS $7,000

COSER, LEWIS A; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8007152)*; 15 MONTHS $4,399

SYRACUSE UNIVERSITY

CAMPBELL, DONALD T; *THEORY OF SOCIAL EXPERIMENTATION, MEASUREMENT AND PROGRAM EVALUATION (BNS-7925577)**; 12 MONTHS $42,640

MEINIG, DONALD W; *DOCTORAL DISSERTATION RESEARCH IN GEOGRAPHY AND REGIONAL SCIENCE (SES-8006234)*; 8 MONTHS $4,100

PROVINE, DORIS M; *DETERMINANTS OF LAY AND LAWYER JUDICIAL BEHAVIOR (SES-8012589)*; 24 MONTHS $71,201

UNIVERSITY OF ROCHESTER

SCHWERT, G WILLIAM; *THE DYNAMIC BEHAVIOR OF PRICES (SES-7804278 A01)*; 24 MONTHS $80,002

SELL, RALPH R, AND MCMAHON, ANNE M; *MODELS OF MIGRATION IN THE U.S. 1975-77 (SES-7923699*)*; 20 MONTHS $27,334

RIKER, WILLIAM H; *POLITICAL AND ECONOMIC DETERMINANTS OF REGULATORY DECISIONS (SES-7925631)*; 24 MONTHS $24,099

GOLDBERG, ARTHUR S; *RISK AND UNCERTAINTY AS FACTORS IN THE DURABILITY OF COALITIONS (SES-8006566)*; 12 MONTHS $29,642

NIEMI, RICHARD G; *STRATEGIC VOTING UNDER THE PLURALITY PROCEDURE (SES-8007138*)*; 19 MONTHS $49,291

KING, ROBERT G; *MONEY, RELATIVE PRICES, AND BUSINESS FLUCTUATIONS (SES-8007153)*; 24 MONTHS $70,384

NORTH CAROLINA

DUKE UNIVERSITY

FENOALTEA, STEFANO; *STATISTICS ON ITALIAN INDUSTRIALIZATION (SES-7913427)*; 24 MONTHS $88,543

NORTH CAROLINA AGRICULTURAL & TECH STATE UNIV

SCHAEFER, DONALD F; *MIGRATION AND WEALTH IN THE U. S. ANTEBELLUM SOUTH (SES-8006419)*; 15 MONTHS $24,866

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

GALLMAN, ROBERT E; *QUANTITATIVE STUDIES OF COLONIAL DEMOGRAPHY AND SOCIO-ECONOMIC HISTORY (SES-7708820 A01)*; 12 MONTHS $14,169

MUNGER, FRANK J, AND MARTIN, ELIZABETH; *IMPROVING ACCESS TO PUBLIC OPINION DATA USEFUL FOR THE ANALYSIS OF SOCIAL TRENDS (SES-7721571 A01)*; 6 MONTHS $11,060

NAKELL, BARRY; *CONTROLLING DISCRETION IN THE CRIMINAL JUSTICE PROCESS: A STUDY OF PROCEDURAL SAFEGUARDS IN DEATH PENALTY STATUTES (SES-7812178 A01)*; $12,457

LOVELL, C A KNOX; *ESTIMATING TECHNICAL AND ALLOCATIVE INEFFICIENCY RELATIVE TO STOCHASTIC TRANSFORMATION AND PROFIT FRONTIERS (SES-7926716)*; 24 MONTHS $84,655

KEECH, WILLIAM R; *POLITICAL INSTITUTIONS AND PUBLIC INTERTEMPORAL CHOICE (SES-8006562*)*; 24 MONTHS $70,516

KEECH, WILLIAM R; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-8009437)*; 12 MONTHS $2,855

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

PYLE, GERALD F; *THE SIMULATION OF INFLUENZA DIFFUSION (SES-8006537)*; 9 MONTHS $59,490

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

MELTON, FRANK T; *INSTITUTIONAL PRECONDITIONS FOR INDUSTRIALIZATION: DEVELOPMENT OF MODERN BANKING PRACTICES (SES-7913413)*; 12 MONTHS $32,597

OHIO

BOWLING GREEN STATE UNIVERSITY

CARLSON, ALVAR W; *IMPACT OF THE HOMESTEAD ACTS ON THE DEVELOPMENT OF THE SPANISH-AMERICAN CULTURE REGION (SES-8006996)*; 12 MONTHS $14,500

CASE WESTERN RESERVE UNIVERSITY

NELSON, RAYMOND J; *AUTOMATON ANALYSIS OF PSYCHOLOGICAL PREDICATES (SES-8012173)*; 9 MONTHS $18,514

OHIO STATE UNIVERSITY

HENDERSON, J STEPHEN; *COLLABORATIVE RESEARCH ON MONOPOLY PRICES AND QUALITIES UNDER UNCERTAINTY (SES-7914086)*; 24 MONTHS $25,334

DEMKO, GEORGE J; *COLLABORATIVE RESEARCH ON THE DEVELOPMENT OF THE SOVIET UNIFIED SETTLEMENT SYSTEM (SES-8004731)*; 24 MONTHS $36,615

MCCULLOCH, J H; *THE MICROFOUNDATIONS OF INFLATIONARY DYNAMICS (SES-8005994*)*; 8 MONTHS $17,213

CASETTI, EMILIO; *REGIONAL LABOR PRODUCTIVITY CHANGES AND THE GEOGRAPHIC REDISTRIBUTION OF EMPLOYMENT AND POPULATION (SES-8006563*)*; 12 MONTHS $53,500

STEWART, PHILIP D; *THE SOVIET LEADERSHIP, THE POLICY PROCESS, AND POLITICAL CHANGE (SES-8006569)*; 24 MONTHS $70,238

OHIO UNIVERSITY

SOLTOW, LEE; *DISTRIBUTION OF WEALTH IN THE UNITED STATES (SES-7624155 A02)*; 24 MONTHS $54,933

UNIVERSITY OF CINCINNATI

BISHOP, GEORGE F, OLDENDICK, ROBERT W, AND TUCHFARBER, ALFRED J; *EXPERIMENTS IN THE MEASUREMENT OF PUBLIC POLICY ATTITUDES (SES-7907407 A02)*; 12 MONTHS $50,287

MAYER, WOLFGANG; *PRODUCT QUALITY, TARIFFS, AND ADVERTISING IN INTERNATIONAL TRADE (SES-7905703)*; 15 MONTHS $41,616

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

NOSTRAND, RICHARD L; *THE GEOGRAPHIC MORPHOLOGY OF CULTURAL REGIONS (SES-7910919)*; 12 MONTHS $33,500

OREGON

REED COLLEGE

POCK, JOHN C; *MEDIA IMAGES OF SCIENCE DURING A NATURAL DISASTER (SES-8022979)*; 12 MONTHS $16,739

UNIVERSITY OF OREGON - EUGENE

ORBELL, JOHN M, AND DAWES, ROBYN M; *EXPERIMENTAL RESEARCH IN SOCIAL DILEMMAS (SES-7906131 A01)*; $7,308

PENNSYLVANIA

AMERICAN ACADEMY OF POLITICAL & SOCIAL SCIENCE

LAMBERT, RICHARD D; *PARTIAL SUPPORT FOR A SOCIAL INDICATORS PUBLICATION (SES-8005078)*; 18 MONTHS $44,890

CARNEGIE-MELLON UNIVERSITY

ICHIISHI, TATSURO; *GAME THEORY IN ECONOMIC MODELS (SES-7906123 A01)*; 12 MONTHS $13,517

PRESCOTT, EDWARD C; *COLLABORATIVE RESEARCH ON BUSINESS CYCLE AND STABILIZATION THEORY (SES-7816476 A01)*; 12 MONTHS $38,831

CYERT, RICHARD M, AND DE GROOT, MORRIS H; *BAYESIAN ANALYSIS IN ECONOMIC THEORY (SES-7906386 A01)*; 12 MONTHS $60,887

CONSTANT, EDWARD W; *SCIENCE, IDEOLOGY, AND OIL: THE EVOLUTION OF PUBLIC POLICY IN TEXAS, 1919-1956 (SES-7912933 A01)*; 12 MONTHS $27,655

ORDESHOOK, PETER C; *COLLABORATIVE RESEARCH ON A THEORETICAL AND EXPERIMENTAL ANALYSIS OF COMMITTEE COALITION PROCESSES (SES-7913415 A01)*; 12 MONTHS $54,649

HANSEN, LARS P; *BUILDING ECONOMETRIC MODELS UNDER RATIONAL EXPECTATIONS (SES-8007016)*; 24 MONTHS $74,210

PENNSYLVANIA STATE UNIVERSITY

CLOGG, CLIFFORD C; *DEMOGRAPHIC INDICATORS OF UNDEREMPLOYMENT, 1969-1980 (SES-7823759 A01)*; 12 MONTHS $33,166

ZELINSKY, WILBUR; *U.S. POPULATION REDISTRIBUTION AND PERSONAL ENERGY USE (SES-7826121 A01)*; 12 MONTHS $87,605

WALSH, EDWARD J; *THE ORGANIZATIONAL DEVELOPMENT OF SOCIAL MOVEMENTS (SES-7912555)*; 12 MONTHS $27,071

CALLAGHY, THOMAS M; *THIRD WORLD DEBT AND THE INTERNATIONAL SYSTEM: THE CASE OF ZAIRE (SES-8013453)*; 12 MONTHS $37,775

TEMPLE UNIVERSITY

HAVAS, PETER; *HISTORICAL AND PHILOSOPHICAL STUDIES IN THE THEORY OF RELATIVITY (SES-7824408 A01)*; 24 MONTHS $35,000

LEBLANC, HUGUES; *PROBABILISTIC SEMANTICS (SES-8007179)*; 12 MONTHS $18,000

UNIVERSITY OF PENNSYLVANIA

HERSHBERG, THEODORE, AND CONDRAN, GRETCHEN; *EFFECTS OF INDUSTRIALIZATION ON MORTALITY RATES (SES-7907129)*; 15 MONTHS $92,814

SIVIN, NATHAN; *A HISTORY OF CHINESE MATHEMATICAL ASTRONOMY (SES-7907137 A01)*; $30,383

BLAIR, PETER, AND MILLER, RONALD; *METHODOLOGICAL PROBLEMS IN INPUT-OUTPUT MODELS: NON-SURVEY ESTIMATION AND AGGREGATION (SES-7907215 A01)*; 12 MONTHS $31,804

KRAVIS, IRVING B, SUMMERS, ROBERT, AND HESTON, ALAN; *INTERNATIONAL COMPARISONS OF THE STRUCTURE OF PRICES AND OUTPUT (SES-7915980)*; 18 MONTHS $174,000

THACKRAY, ARNOLD W; *INDICATORS OF CHEMICAL SCIENCE (SES-7920051*)*; 12 MONTHS $19,879

ETHIER, WILFRED J; *FUNDAMENTAL PROPOSITIONS IN THE MODERN THEORY OF INTERNATIONAL TRADE (SES-7925611)*; 24 MONTHS $61,274

AZARIADIS, COSTAS; *PRICE RIGIDITY AND ECONOMIC ACTIVITY (SES-8006256)*; 24 MONTHS $88,871

YAARI, MENAHEM E. AND CASS, DAVID; *THE ECONOMIC THEORY OF EQUITY. INTERGENERATIONAL TRANSFERS, AND ECONOMIC GROWTH (SES-8004111)*; 24 MONTHS $62,096

GLICKMAN, NORMAN J; *A SPATIO-TEMPORAL MODEL FOR ANALYZING REGIONAL ECONOMIC CYCLES AND INTERREGIONAL MIGRATION (SES-8006563)*; 12 MONTHS $69,900

CASS, DAVID, SHELL, KARL, AND BALASKO, YVES; *GENERAL EQUILIBRIUM FOUNDATIONS OF INTERTEMPORAL DECISIONS THE OVERLAPPING-GENERATIONS MODEL (SES-8007012)*; 12 MONTHS $166,998

REINER, THOMAS A, AND WOLPERT, JULIAN; *THE NONPROFIT SECTOR IN THE METROPOLITAN ECONOMY (SES-8014232*)*; 12 MONTHS $73,000

FUJITA, MASAHISA; *EMPIRICAL TESTING OF A DYNAMIC THEORETICAL MODEL OF URBAN LAND USE (SES-8014257)*; 12 MONTHS $29,500

UNIVERSITY OF PENNSYLVANIA-WHARTON SCHOOL OF FINANCE AND COMMERCE

KIHLSTROM, RICHARD E; *THE ECONOMIC THEORY OF FREE ENTRY WITH UNCERTAINTY AND INCOMPLETE MARKETS (SES-8007549)*; 12 MONTHS $87,813

RHODE ISLAND

BROWN UNIVERSITY

HENDERSON, J VERNON; *THE ECONOMICS OF SYSTEMS OF CITIES (SES-7901592 A01)*; $12,414

POTTER, ROBERT G; *BIRTH SPACING AND FAMILY SIZE (SES-7910396)*; 24 MONTHS $48,054

SPULBER, DANIEL F; *CONFERENCE ON THE ECONOMICS OF RENEWABLE RESOURCE MANAGEMENT, OCTOBER 19, 20, AND 21, 1979 AT BROWN UNIVERSITY (SES-7914386)*; 12 MONTHS $7,100

BECKMANN, MARTIN J; *ALLOCATION IN ORGANIZATIONS (SES-7919376)*; 18 MONTHS $30,909

ANDERSON, BARBARA A; *COLLABORATIVE RESEARCH ON LANGUAGE POLICY AND ETHNIC IDENTITY CHANGE IN THE U. S. S. R. (SES-8021448)*; 24 MONTHS $79,381

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

WEBSTER, MURRAY J; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8002052)*; 12 MONTHS $3,700

KASAKOFF, ALICE B, AND ADAMS, JOHN W; *THE ROLE OF REGIONAL DEVELOPMENT, KINSHIP NETWORKS AND MATE CHOICE ON MIGRATION (SES-8016384)*; 14 MONTHS $52,306

TENNESSEE

MEMPHIS STATE UNIVERSITY

WALD, KENNETH D; *THE TRANSFORMATION OF POLITICAL PARTY SYSTEMS (SES-7805765 A01)*; 6 MONTHS $7,424

UNIVERSITY OF TENNESSEE AT KNOXVILLE

BELL, THOMAS L, AND CHURCH, RICHARD L; *LOCATION-ALLOCATION MODELING OF ARCHAEOLOGICAL SETTLEMENT PATTERNS (SES-7923686)*; 20 MONTHS $56,000

JONES, E ROGER; *CLASSICAL PROPERTIES OF PHYSICAL SYSTEMS IN RELATIVITY PHYSICS (SES-7926725)*; 12 MONTHS $16,678

GARFINKEL, ROBERT S; *DEVELOPMENT OF MATHEMATICAL MODELS TO DETERMINE THE OPTIMAL LOCATION OF FACILITIES OBJECTIONABLE TO THE PUBLIC (SES-8016760)*; 15 MONTHS $49,000

TEXAS

TEXAS A & M UNIVERSITY

BATTALIO, RAYMOND C, AND KAGEL, JOHN H; *EXPERIMENTAL STUDIES OF CONSUMER DEMAND AND LABOR SUPPLY (SES-7727062 A02)*; 12 MONTHS $22,967

SAVING, THOMAS R; *EFFICIENT PRICING, CAPACITY UTILIZATION AND PRODUCT QUALITY (SES-7807283 A02)*; 12 MONTHS $74,347

STRANGES, ANTHONY N; *A HISTORY OF HIGH-PRESSURE COAL HYDROGENATION IN GERMANY: 1910-1945 (SES-7926748)*; 24 MONTHS $17,200

JOHNSON, CHARLES; *ANALYTIC TECHNIQUES FOR JUDICIAL DECISION RESEARCH (SES-8011040)*; 17 MONTHS $60,693

UNIV OF TEXAS AT AUSTIN

GLENN, NORVAL D; *AGING AND ATTITUDINAL STABILITY (SES-7907917)*; 24 MONTHS $50,601

GALLE, OMER R; *INCOME ATTAINMENT AND INEQUALITY IN METROPOLITAN AMERICA (SES-8007901)*; 12 MONTHS $29,124

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

GREGORY, PAUL R; *ECONOMIC GROWTH AND PERFORMANCE, RUSSIA AND THE SOVIET UNION (SES-7718049 A01)*; 24 MONTHS $34,357

VERMONT

UNIVERSITY OF VERMONT

NELSON, GARRISON; *COMPUTERIZATION OF LONGITUDINAL DATA ON CONGRESSIONAL ORGANIZATION (SES-8009284)*; 12 MONTHS $63,567

VIRGINIA

COLLEGE OF WILLIAM AND MARY

ABRAMOWITZ, ALAN I; *RESEARCH WORKSHOPS ON COMPARATIVE STUDY OF AMERICAN STATE POLITICS, WILLIAMSBURG, VIRGINIA, 1980 AND 1981 (SES-8006811)*; 18 MONTHS $24,800

UNIVERSITY OF VIRGINIA

CAPLOW, THEODORE; *URBAN SOCIAL STRUCTURE AND CHANGE (SES-7513590 A06)*; 6 MONTHS $19,280

WALKER, W LAURENS; *THEORY OF PROCEDURE: TESTS AND EXPLORATION (BNS-7817438 A02)*; 12 MONTHS $16,315

SHERMAN, ROGER; *COLLABORATIVE RESEARCH ON MONOPOLY PRICES AND QUALITIES UNDER UNCERTAINTY (SES-7914081)*; 24 MONTHS $57,031

MCCALLUM, BENNETT T; *RATIONAL EXPECTATIONS, PRICE RIGIDITY, AND AGGREGATE SUPPLY (SES-7915353)*; 24 MONTHS $80,027

CAPLOW, THEODORE; *PREPARATION OF SPECIAL U.S. CENSUS TABULATIONS FOR MIDDLETOWN (MUNCIE, INDIANA): 1910-1970 (SES-7918528)*; 18 MONTHS $73,700

ROSS, DOROTHY; *THE ORIGINS OF THE AHISTORICAL CHARACTER OF AMERICAN SOCIAL SCIENCE (SES-7919300)*; 12 MONTHS $28,201

GUTERBOCK, THOMAS M; *POPULATION DECONCENTRATION IN U.S. METROPOLITAN AREAS (SES-7926182)*; 21 MONTHS $86,740

GARBER, PETER M, AND FLOOD, ROBERT P; *AGENTS' LEARNING AND SPECULATIVE BUBBLES IN MACROECONOMIC MODELS (SES-7926907)*; 24 MONTHS $83,499

VIRGINIA POLYTECHNIC INSTITUTE

GREENBERG, JOSEPH, KATS, AMOZ, AND SHITOVITZ, BENYAMIN; *COOPERATIVE AND COMPETITIVE ALLOCATIONS IN FINITE ECONOMIES (SES-7908909)*; 12 MONTHS $55,000

BUCHANAN, JAMES M, AND BRENNAN, H G; *PROBLEMS OF IMPLEMENTING AND ENFORCING DISTRIBUTIONAL NORMS THROUGH THE GOVERNMENTAL-POLITICAL PROCESS (SES-7924857)*; 12 MONTHS $78,048

WASHINGTON

UNIVERSITY OF WASHINGTON

BEYERS, WILLIAM B; *SPATIAL AND TEMPORAL DIMENSIONS OF INTERINDUSTRY LINKAGE SYSTEMS (SES-7811372 A01)*; 10 MONTHS $43,742

EMERSON, RICHARD M, AND COOK, KAREN S; *EXPERIMENTAL STUDIES OF EXCHANGE NETWORKS AND CORPORATE GROUPS (SES-7925788 A01)*; 12 MONTHS $112,547

EMERSON, RICHARD M; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8000279)*; 18 MONTHS $4,780

HODGE, DAVID C; *MODELLING THE GEOGRAPHIC COMPONENT OF MASS TRANSIT SUBSIDIES (SES-8014416)*; 12 MONTHS $39,500

WASHINGTON STATE UNIVERSITY

DILLMAN, DON, AND SHORT, JAMES F; *THE SOCIAL IMPACTS OF VOLCANIC ASH FALLOUT ON EASTERN WASHINGTON (SES-8019084)*; 12 MONTHS $10,994

WISCONSIN

MARQUETTE UNIVERSITY

ZUPKO, RONALD E; *HISTORICAL METROLOGY: THE EVOLUTION OF THE SCIENCE OF WEIGHTS AND MEASURES (SES-7921473)*; 12 MONTHS $12,190

UNIVERSITY OF WISCONSIN-MADISON

WINSBOROUGH, HALLIMAN H, TAEUBER, KARL E, AND HAUSER, ROBERT M; *PUBLIC USE SAMPLE FILES FROM THE 1940 AND 1950 CENSUSES OF POPULATION (SES-7704135 A03)*; 12 MONTHS $2,172,639

SCHWARTZ, SHALOM H; *MORAL DECISION MAKING AND BEHAVIOR (BNS-7723287 A02)*; 14 MONTHS $17,000

DAVID, MARTIN, AND MENCHIK, PAUL; *EFFECTS OF SOCIAL SECURITY ON BEQUESTS WITHIN FAMILIES (SES-7727358 A01)*; 24 MONTHS $128,776

HALLER, ARCHIBALD O; *PROCESSES OF SOCIAL STRATIFICATION: INFLUENCES OF ECONOMIC DEVELOPMENT (SES-7807414 A02)*; 6 MONTHS $38,093

WRIGHT, ERIK O; *DIMENSIONS OF SOCIAL INEQUALITY IN MODERN WESTERN SOCIETIES (SES-7812189 A01)*; 12 MONTHS $94,007

HALABY, CHARLES N, AND BROWN, M CRAIG; *COLLABORATIVE RESEARCH ON THE BUREAUCRATIZATION OF EMPLOYMENT RELATIONS (SES-7905581 A01)*; 12 MONTHS $47,454

MARE, ROBERT; *SOCIAL AND DEMOGRAPHIC SOURCES OF CHANGE IN THE YOUTH LABOR MARKET (SES-7912448 A01)*; 12 MONTHS $71,087

DENNIS, JACK; *ELECTION CAMPAIGNS AND PREADULT POLITICAL SOCIALIZATION (SES-7913435)*; 12 MONTHS $79,356

DAHLMAN, CARL, *THE ECONOMICS OF SERFDOM (SES-7914342)*; 12 MONTHS $19,580

HESTER, DONALD D; *BANK PORTFOLIOS AND MONETARY POLICY (SES-7920283)*; 24 MONTHS $92,315

BURDETT, KENNETH; *COLLABORATIVE RESEARCH ON INFORMATION UNCERTAINTY AND LABOR MARKET EQUILIBRIUM (SES-7927216)*; 24 MONTHS $78,294

RICHARDSON, J DAVID, AND HOOL, R BRYCE; *TRANSMISSION OF MACROECONOMIC SHOCKS BETWEEN ECONOMIES (SES-8000973)*; 24 MONTHS $78,454

GEWEKE, JOHN F; *INFERENCE AND MODEL SELECTION WITH ECONOMIC TIME SERIES (SES-8005606)*; 24 MONTHS $100,991

JOSEPH, GEOFFREY S; *QUANTUM SET THEORY (SES-8007236)*; 9 MONTHS $34,635

MAZZAOUI, MAUREEN F; *TECHNOLOGY AND SOCIAL CHANGE: THE RESPONSE OF THE WOOLEN INDUSTRY TO SOCIAL, CULTURAL AND ECONOMIC DEVELOPMENTS (SES-8009533)*; 14 MONTHS $9,688

HAUSER, ROBERT M, AND SEWELL, WILLIAM H; *SOCIAL AND PSYCHOLOGICAL FACTORS IN ASPIRATION AND ACHIEVEMENT (SES-8010640)*; 12 MONTHS $85,489

PALLONI, ALBERTO; *SOCIOECONOMIC DETERMINANTS OF CHANGES IN MORTALITY RATES (SES-8011410)*; 12 MONTHS $41,000

UNIVERSITY OF WISCONSIN-MILWAUKEE

EIDT, ROBERT C; *SEQUENTIAL PHOSPHATE FRACTIONATION OF ANTHROSOLS (SES-7724524 A02)*; 8 MONTHS $8,343

COTTER, CORNELIUS P, BIBBY, JOHN F, GIBSON, JAMES L, AND HUCKSHORN, ROBERT J; *PARTY TRANSFORMATION IN THE UNITED STATES AND THE INSTITUTIONAL PARTY (SES-7727090 A02)*; 6 MONTHS $26,658

BEHAVIORAL AND NEURAL SCIENCE

ALABAMA

UNIVERSITY OF ALABAMA IN BIRMINGHAM

LORDEN, JOAN F; *NEUROANATOMICAL AND NEUROCHEMICAL CORRELATES OF INFORMATION PROCESSING (BNS-8014675)*; 24 MONTHS $60,000

ALASKA

UNIVERSITY OF ALASKA-FAIRBANKS

KRAUSS, MICHAEL E; *ALASKA NATIVE LANGUAGES DICTIONARY PROJECT (BNS-7735298 A02)*; 12 MONTHS $100,634

ARIZONA

ARIZONA STATE UNIVERSITY

PLOG, FRED T, AND MERRS, CHARLES F; *THE GROWTH AND ABANDONMENT OF THE CHAVEZ PASS DISTRICT (BNS-7914027 A01)*; 12 MONTHS $64,735

GAINES, SYLVIA W, AND PLOG, FRED T; *SUPPORT FOR THE SOUTHWESTERN ANTHROPOLOGICAL RESEARCH GROUP (BNS-8004571)*; 22 MONTHS $41,369

MUSEUM OF NORTHERN ARIZONA

GALLAGHER, MARSHA V; *BASKETRY STORAGE IMPROVEMENT AT THE MUSEUM OF NORTHERN ARIZONA (BNS-8005245)*; 8 MONTHS $17,848

GALLAGHER, MARSHA V; *CONSERVATION OF THE HUMAN SKELETAL COLLECTION (BNS-8005722)*; 24 MONTHS $29,548

UNIVERSITY OF ARIZONA-COLLEGE OF MEDICINE

DUCKLES, SUE P; *UNIQUE ASPECTS OF CEREBROVASCULAR ADRENERGIC NERVES (BNS-7924750)*; 24 MONTHS $50,025

UNIVERSITY OF ARIZONA

BASSO, ELLEN B; *AN ETHNOGRAPHY OF EXPLANATION IN CULTURE AND SOCIETY (BNS-7900849 A02)*; $3,745

BASSO, KEITH H; *MAN-LAND RELATIONSHIPS IN EASTERN ARIZONA (BNS-8004435)*; 20 MONTHS $40,097

SCHREIBER, KATHARINA J; *ARCHAEOLOGICAL SURVEY: IMPACT OF EMPIRE EXPANSION ON THE RURAL HINTERLAND (BNS-8006131)*; 8 MONTHS $26,171

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

ROSE, JEROME C; *BIOARCHEOLOGY OF THE GOLD MINE SITE (BNS-7933539)*; 12 MONTHS $10,000

BERMUDA

BERMUDA BIOLOGICAL STATION FOR RESEARCH INC

STERRER, WOLFGANG E; *SHORT PROJECTS IN MARINE BIOLOGICAL SCIENCE (DEB-8008909*)*; 12 MONTHS $4,365

CALIFORNIA

AMERICAN SOCIETY OF ZOOLOGISTS

WESTFALL, JANE A; *SYMPOSIUM ON VISUAL CELLS IN EVOLUTION; 12/27-30/80; SEATTLE, WASHINGTON (BNS-8012061)*; 12 MONTHS $14,004

BEECHER, MICHAEL D; *SYMPOSIUM ON INDIVIDUAL AND SPECIES RECOGNITION; DECEMBER 1980, SEATTLE, WASHINGTON (BNS-8013449)*; 12 MONTHS $1,300

CALIFORNIA INSTITUTE OF TECHNOLOGY

HAMILTON, CHARLES R; *LATERALIZATION AND VISION IN SPLIT-BRAIN MONKEYS (BNS-7713804 A02)*; 12 MONTHS $58,380

ALLMAN, JOHN M; *FUNCTIONAL ORGANIZATION OF PRIMATE VISUAL SYSTEM (BNS-7715605 A02)*; 12 MONTHS $15,000

BIXT, DORWIN L, AND OLDS, MARIANNE E; *ASSOCIATIVE UNIT CHANGES IN AUDITORY SYSTEM DURING THE LEARNING PROCESS (BNS-7722259 A02)*; 12 MONTHS $44,000

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

FLEURET, ANNE; *IPA MOBILITY ASSIGNMENT (ANNE FLEURET) (BNS-7924980 A02)*; 12 MONTHS $3,377

CENTER FOR ADV STUDY IN THE BEHAVIORAL SCIENCE

LINDZEY, GARDNER, AND CUTLER, PRESTON S; *INTERDISCIPLINARY RESEARCH AT THE CENTER FOR ADVANCED STUDY IN THE BEHAVIORAL SCIENCES (BNS-7922943 A03*)*; 12 MONTHS $500,000

CITY OF HOPE NATIONAL MEDICAL CENTER

HAMMERSCHLAG, RICHARD; *INITIATION OF FAST AXONAL TRANSPORT (BNS-7813039 A01)*; 12 MONTHS $47,691

MCAFEE, DONALD A; *THE NEUROBIOLOGY OF SYMPATHETIC NEURONS (BNS-7915394 A01)*; 12 MONTHS $52,008

MCCAMAN, RICHARD E; *NEW NEUROTRANSMITTERS IN APLYSIA CENTRAL NERVOUS SYSTEM (BNS-7914064)*; 8 MONTHS $20,070

CITY OF HOPE RESEARCH INSTITUTE

MCCAMAN, RICHARD E; *NEW NEUROTRANSMITTERS IN APLYSIA CNS (BNS-8013160)*; 36 MONTHS $97,824

ESTELLE DOHENY EYE FOUNDATION

CITRON, MARK C; *NONLINEAR SPATIAL INTEGRATION IN THE RETINA (BNS-7924730)*; 12 MONTHS $29,962

INSTITUTE FOR AMERICAN RESEARCH

COOMBS, GARY B; *THE GROUP SETTLEMENT AND THE CAUSES OF HUMAN MIGRATION (BNS-7924152)*; 6 MONTHS $10,772

LOS ANGELES COUNTY MUSEUM OF NATURAL HISTORY

BLOMBERG, NANCY J; *IMPROVEMENT OF THE ANTHROPOLOGICAL RESEARCH COLLECTIONS (BNS-8005443)*; 12 MONTHS $42,245

PITZER COLLEGE

MUNROE, RUTH H, AND MUNROE, ROBERT L; *SOCIOBEHAVIORAL FACTORS IN ROLE DETERMINATION ACROSS CULTURES (BNS-7913525)*; 12 MONTHS $35,395

SALK INSTITUTE FOR BIOLOGICAL STUDIES

BELLUGI, URSULA, AND KLIMA, EDWARD S; *STRUCTURED USE OF SPACE AND MOVEMENT IN A VISUAL-MANUAL LANGUAGE (BNS-7807295 A02)*; 12 MONTHS $141,200

STEINBACH, JOSEPH H; *FUNCTION AND DISTRIBUTION OF ACETYLCHOLINE RECEPTORS (BNS-7906013 A01)*; 12 MONTHS $61,018

SPEECH COMMUNICATIONS RESEARCH LABORATORY

LEA, WAYNE A; *INTONATIONAL CORRELATES OF SENTENCE STRUCTURES (BNS-7825016 A01)*; 12 MONTHS $69,979

SRI INTERNATIONAL

STEPITA-KLAUCO , MATEJ; *DIAMINOPENTANES: THEIR POSSIBLE ROLE IN THE NERVOUS SYSTEM (BNS-7927039)*; 6 MONTHS $15,396

STANFORD UNIVERSITY-SCHOOL OF MEDICINE

SHOOTER, ERIC M; *THE BIOSYNTHESIS OF NERVE GROWTH FACTOR (BNS-7914093 A01)*; 12 MONTHS $45,226

SARGENT, PETER B; *SYNAPSE FORMATION BETWEEN NEURONS IN VIVO (BNS-7924486)*; 12 MONTHS $41,445

STANFORD UNIVERSITY

LEPPER, MARK R, AND ROSS, LEE D; *PERSEVERANCE AND CHANGE IN IMPRESSIONS AND BELIEFS (BNS-7801211 A02)*; 12 MONTHS $53,540

AMBRON, SUEANN R; *EFFECTS OF DAY CARE ON PSYCHOLOGICAL DEVELOPMENT IN YOUNG CHILDREN (BNS-7809195 A02)*; 12 MONTHS $96,132

WINE, JEFFREY J; *CELLULAR ORGANIZATION OF BEHAVIOR (BNS-7914179 A02)*; 12 MONTHS $65,000

GOODMAN, COREY S; *EMBRYONIC DEVELOPMENT OF IDENTIFIED NEURONS IN VIVO (BNS-7904670 A01)*; 12 MONTHS $60,000

SIEGEL, BERNARD J; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7906840)*; 15 MONTHS $4,914

LEPPER, MARK R; *EXTRINSIC CONSTRAINTS AND INTRINSIC MOTIVATION (BNS-7914118)*; 12 MONTHS $52,864

FERGUSON, CHARLES A, AND HUNTINGTON, DOROTHY A; *PHONOLOGICAL PRECURSORS TO EARLY SPEECH (BNS-7924167)*; 12 MONTHS $105,825

CHOWNING, JOHN M; *AUDITORY DISTANCE PERCEPTION UNDER NATURAL SOUNDING CONDITIONS (BNS-7924645)*; 12 MONTHS $45,766

BOWER, GORDON H; *PICTORIAL REPRESENTATIONS IN ADULTS AND CHILDREN (BNS-8002012)*; 12 MONTHS $31,817

SHEPARD, ROGER N; *PROBLEMS OF REPRESENTATION IN COGNITIVE PSYCHOLOGY (BNS-8005517)*; 12 MONTHS $105,352

CLARK, EVE V; *WORD FORMATION IN LANGUAGE ACQUISITION: NEW MEANINGS AND NEW FORMS (BNS-8007349)*; 12 MONTHS $28,628

UNIVERSITY OF CALIFORNIA, BERKELEY

KAY, PAUL; *COLOR CATEGORIZATION: A SURVEY OF THE WORLD'S UNWRITTEN LANGUAGES (BNS-7814153 A04)*; $7,006

CLARK, J D; *PALEO-ANTHROPOLOGY AND PREHISTORIC ENVIRONMENT (BNS-7923187 A04)*; 4 MONTHS $12,378

POSTMAN, LEO J; *CONDITIONS THAT RETARD FORGETTING (BNS-7723841 A02)*; 12 MONTHS $32,999

OHALA, JOHN J; *EXPERIMENTAL PHONOLOGY (BNS-7728133 A02)*; 12 MONTHS $51,804

WILSON, ALLAN C; *SYSTEMATIC BIOLOGY OF HIGHER PRIMATES (DEB-7902941 A03*)*; 12 MONTHS $5,000

GLICKMAN, STEPHEN E; *PHYSIOLOGICAL AND PSYCHOPHYSICAL STUDIES OF SPATIAL VISION (BNS-7806171 A02)*; 12 MONTHS $81,756

ROWELL, THELMA E; *ADOLESCENCE AND EARLIER SOCIAL DEVELOPMENT (BNS-7813037 A01)*; 12 MONTHS $91,131

TRINGHAM, RUTH E; *SOCIO-ECONOMIC TRANSFORMATIONS OF AGRICULTURAL SOCIETIES (BNS-7821468 A01)*; 12 MONTHS $51,252

SHERMAN, PAUL W; *ADAPTIVE SIGNIFICANCE OF MAMMALIAN BEHAVIOR (BNS-7924952 A01*)*; 26 MONTHS $16,927

ERVIN-TRIPP, SUSAN; *SOCIAL DEVELOPMENT AND COMMUNICATIVE STRATEGIES (BNS-7826539 A01*)*; 12 MONTHS $87,500

DOLHINOW, PHYLLIS C; *MOTHER LOSS AND ADOPTION (BNS-7901012 A01)*; 12 MONTHS $32,149

CLARK, J D, AND HOWELL, F CLARK; *CONSTRUCTION OF A STORAGE/LABORATORY UNIT IN ADDIS ABABA TO HOUSE THE COLLECTIONS MADE BY THE UNITED STATES BASED AND FINANCED EXPEDITIONS IN ETHIOPIA (BNS-7908342 A01)*; $1,049

ROBERTS, SETH D; *PROPERTIES AND FUNCTION OF A TIMING SYSTEM (BNS-7908829 A01)*; 12 MONTHS $32,679

ROSENZWEIG, MARK R, BENNETT, EDWARD L, AND SHERMAN, PAUL W; *EVOLUTION OF BRAIN PLASTICITY IN MAMMALS (BNS-7913754)*; 24 MONTHS $100,000

HAAS, MARY R; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (BNS-7918931)*; 6 MONTHS $5,378

ISAAC, GLYNN L; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7919657)*; 7 MONTHS $6,290

CURTIS, GARNISS H; *K-AR RADIOISOTOPE DATING AND INVESTIGATION OF FOSSIL HOMINOID AND HOMINID SITES (BNS-7919798)*; 12 MONTHS $61,171

BARLOW, GEORGE W; *INTEGRATION OF AGONISTIC BEHAVIOR (BNS-7914091)*; 12 MONTHS $55,549

RILEY, DONALD A; *INFORMATION ACQUISITION AND SHORT-TERM MEMORY (BNS-7924499)*; 12 MONTHS $55,243

HOWELL, F CLARK; *EXCAVATION OF AN EARLY HUMAN SETTLEMENT (BNS-7926707)*; 12 MONTHS $104,894

LEWIS, EDWIN R; *MAPPING OF VIBRATION SENSITIVITY IN THE INNER EAR (BNS-8005834)*; 24 MONTHS $84,350

DEETZ, JAMES, AND HOWELL, F CLARK; *RENOVATION OF THE PRIMATE SKELETAL COLLECTION (BNS-8006443)*; 12 MONTHS $19,884

KAY, PAUL, AND BERLIN, BRENT; *HUMAN COLOR CATEGORIZATION: A SURVEY OF THE WORLD'S UNWRITTEN LANGUAGES (BNS-8006302*)*; 24 MONTHS $63,789

NADER, LAURA; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8008679)*; 12 MONTHS $2,190

SLOBIN, DAN I; *CROSS-LINGUISTIC STUDY OF LANGUAGE ACQUISITION (BNS-8009340)*; 9 MONTHS $18,686

ISAAC, GLYNN L; *EARLY HOMINID LIFE PATTERNS (BNS-8014139)*; 12 MONTHS $85,645

CLARK, J D; *COLLABORATIVE RESEARCH ON THE PALAEOANTHROPOLOGY OF THE HADAR REGION AND THE MIDDLE AWASH VALLEY OF ETHOPIA (BNS-8019868)*; 12 MONTHS $83,286

UNIVERSITY OF CALIFORNIA, DAVIS

MCHENRY, HENRY; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7918240)*; 24 MONTHS $8,350

HAMILTON, WILLIAM J; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-7921645*)*; 24 MONTHS $5,500

BETTINGER, ROBERT L; *PREHISTORIC SETTLEMENT AND SUBSISTENCE IN OWENS VALLEY, EASTERN CALIFORNIA (BNS-8017798)*; 12 MONTHS $34,448

UNIVERSITY OF CALIFORNIA, IRVINE

LYNCH, GARY S; *NEUROBIOLOGICAL ANALYSIS OF PLASTICITY (BNS-7617370 A04)*; 12 MONTHS $267,200

LENHOFF, HOWARD M; *GLUTATHIONE RECEPTOR OF HYDRA (BNS-7810209 A01)*; 12 MONTHS $56,855

KILLACKEY, HERBERT P; *DEVELOPMENT AND PLASTICITY OF THE RAT'S TRIGEMINAL SYSTEM (BNS-7824655 A01)*; 12 MONTHS $50,000

ROBARDS, MARTINE J; *ANATOMICAL STUDIES OF THE SECOND SOMATOSENSORY SYSTEM (BNS-7825744 A01)*; 12 MONTHS $52,477

WEXLER, KENNETH N, AND CULICOVER, PETER W; *ACQUISITION CONSTRAINTS ON THEORY OF LANGUAGE STRUCTURE (BNS-7827044 A01)*; $26,894

WEXLER, KENNETH N, AND CULICOVER, PETER W; *ACQUISITION CONSTRAINTS ON THEORY OF LANGUAGE STRUCTURE (BNS-7827044 A02)*; 12 MONTHS $24,818

MARSHALL, JOHN F; *SYNAPTIC PLASTICITY IN RECOVERY FROM DOPAMINE NEURON DAMAGE (BNS-7914082 A01)*; 12 MONTHS $42,000

BENNETT, WILLIAM F; *SYNAPTIC PLASTICITY IN BRAIN: BIOCHEMICAL STUDIES USING TWO MODEL SYSTEMS (BNS-7919799)*; 12 MONTHS $48,000

NARENS, LOUIS; *PROBLEMS IN THE THEORY OF MEASUREMENT THAT PERTAIN TO INFORMATION CONCEPTS (IST-7924015*)*; 36 MONTHS $44,500

WATT, WILLIAM C; *A MODEL FOR LANGUAGE-LIKE GRAPHIC CAPACITIES (BNS-8006834)*; 24 MONTHS $58,749

POO, MU-MING; *ELECTROPHORESIS OF MUSCLE MEMBRANE RECEPTORS IN SITU (BNS-8012348)*; 12 MONTHS $90,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES-SCHOOL OF MEDICINE

LOLLEY, RICHARD N; *ROLE FOR CYCLIC GMP IN PHOTORECEPTOR FUNCTION OR METABOLISM (BNS-7926806)*; 12 MONTHS $54,703

UNIVERSITY OF CALIFORNIA, LOS ANGELES

ECKERT, ROGER; *IONIC MECHANISMS IN NORMAL AND GENETICALLY ALTERED EXCITABLE MEMBRANES (BNS-7719161 A02)*; 12 MONTHS $51,000

GRINNELL, ALAN D, AND BROWN, PATRICIA E; *ECHOLOCATION AND COMMUNICATION IN BATS (BNS-7725188 A02)*; 12 MONTHS $42,944

LADEFOGED, PETER N, AND FROMKIN, VICTORIA A; *PHONETIC DIFFERENCES WITHIN AND BETWEEN LANGUAGES (BNS-7807630 A03)*; 12 MONTHS $97,202

HILL, JAMES N; *PREHISTORIC RESPONSES TO FOOD STRESS (BNS-7808118 A03)*; 12 MONTHS $55,003

GORSKI, ROGER A; *NEUROCHEMICAL MECHANISMS UNDERLYING LORDOSIS BEHAVIOR (BNS-7820025)*; 12 MONTHS $35,771

WOODY, CHARLES D; *ELECTROPHYSIOLOGICAL STUDIES OF CONSEQUENCES OF STIMULUS ASSOCIATIONS ON BRAIN AND BEHAVIOR (BNS-7824146 A01)*; 12 MONTHS $35,274

WOODWARD, J A, BEATTY, JACKSON, AND GEISELMAN, J E; *STRUCTURAL EQUATION MODELS OF VERBAL MEMORY (BNS-7910053 A01)*; 14 MONTHS $31,408

CHASE, MICHAEL H; *SYNAPTIC CONTROL OF LUMBAR MOTONEURON MEMBRANE POTENTIAL DURING SLEEP AND WAKEFULNESS (BNS-7912897)*; 12 MONTHS $66,000

HERSCHMAN, HARVEY R; *DOES EPIDERMAL GROWTH FACTOR MODULATE NEURAL FUNCTIONS (BNS-7913827 A01)*; 12 MONTHS $53,000

KEENAN, EDWARD L; *LOGICAL SEMANTICS AND SYNTACTIC THEORY (BNS-7914141)*; 24 MONTHS $79,873

JOHNSON, ALLEN W; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7919351)*; 24 MONTHS $8,256

KIRSNER, ROBERT S; *QUANTITATIVE STUDIES OF DUTCH GRAMMATICAL STRUCTURE (BNS-7923447)*; 18 MONTHS $11,830

DENIRO, MICHAEL J; *DIET AND STABLE ISOTOPE ANALYSIS OF BONE (BNS-7926758)*; 12 MONTHS $55,636

FROMKIN, VICTORIA A, AND CURTISS, SUSAN R; *THE RELATIONSHIP BETWEEN LANGUAGE AND COGNITION IN DEVELOPMENT (BNS-7926859)*; 12 MONTHS $46,098

ZAIDEL, ERAN; *HEMISPHERIC SPECIALIZATION OF HIGHER FUNCTIONS IN MAN (BNS-7929177)*; 12 MONTHS $55,000

KELLEY, HAROLD H; *WORKING GROUP ON CLOSE RELATIONSHIPS (BNS-8001173)*; 12 MONTHS $3,636

NARINS, PETER M; *AUDITORY SIGNAL RESOLUTION IN HIGH-LEVEL NOISE (BNS-8005258)*; 12 MONTHS $50,242

ARNOLD, ARTHUR P; *ONTOGENY OF SEXUALLY DIMORPHIC NEURAL CIRCUITS (BNS-8006798)*; 12 MONTHS $68,999

WENZEL, BERNICE M, AND HUTCHISON, LARRY V; *OLFACTION IN PROCELLARIIFORM BIRDS (BNS-8013049)*; 12 MONTHS $51,917

SCHIMDT, RICHARD A; *OPEN AND CLOSED-LOOP PROCESSES IN MOVEMENT (BNS-8093125)*; 18 MONTHS $61,000

UNIVERSITY OF CALIFORNIA, RIVERSIDE

OLSEN, RICHARD W; *NEUROACTIVE DRUGS AND GAMMA-AMINOBUTYRIC ACID (BNS-7724614 A02)*; 12 MONTHS $25,000

TAYLOR, R E; *THE ACCURACY OF RADIOCARBON AND AMINO ACID RACEMIZATION DATES ON PLEISTOCENE BONE (BNS-7815049 A02)*; $29,732

PETRINOVICH, LEWIS F; *BEHAVIORAL ADAPTATION IN A NATURAL SETTING (BNS-7914126)*; 12 MONTHS $44,006

SMITH, ELIOT R; *COLLABORATIVE RESEARCH ON A PROCESS MODEL OF THE STAGES OF CAUSAL ATTRIBUTION (BNS-7922366)*; 24 MONTHS $19,434

FULLER, CHARLES A; *THE NEURAL BASIS FOR THE CIRCADIAN CONTROL OF TEMPERATURE REGULATION (BNS-7924412)*; 12 MONTHS $76,279

PETRINOVICH, LEWIS F; *FUNCTION OF VARIATION IN VOCALIZATION (BNS-8004540)*; 24 MONTHS $18,340

MYERSON, JOEL; *OPERANT CHOICE BEHAVIOR. A SYSTEMS ANALYSIS APPROACH (BNS-8011567)*; 24 MONTHS $57,992

WILKE, PHILIP J; *THE PREHISTORY OF EAST-CENTRAL CALIFORNIA (BNS-8016743)*; 12 MONTHS $48,019

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCHOOL OF MEDICINE

GEYER, MARK A; *CYTOFLUORIMETRIC STUDIES OF RAPHE NEURONS (BNS-7904676 A01)*; 12 MONTHS $45,904

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

HEILIGENBERG, WALTER F; *PERCEPTION AND EVALUATION OF ELECTRIC STIMULI IN FISH (BNS-7818833 A01)*; 12 MONTHS $36,567

UNIVERSITY OF CALIFORNIA, SAN DIEGO

BULLOCK, THEODORE H; *ACOUSTICOLATERAL MECHANISMS IN LOWER VERTEBRATES, ESPECIALLY HEARING AND ELECTRORECEPTION (BNS-7703262 A03)*; 12 MONTHS $61,900

GALAMBOS, ROBERT, AND WOODS, DAVID; *ELECTROPHYSIOLOGICAL STUDIES OF SPEAKING AND LISTENING (BNS-7714923 A03)*; 12 MONTHS $78,741

DEUTSCH, J ANTHONY; *HUNGER SATIATION, AVERSION AND THE UPPER GASTROINTESTINAL TRACT (BNS-7801603 A02)*; 12 MONTHS $43,154

PERLMUTTER, DAVID M; *SYNTACTIC UNIVERSALS AND TYPOLOGY (BNS-7817698 A01)*; $24,434

SELVERSTON, ALLEN I; *NEURAL INTEGRATION AND GEOMETRY IN THE STOMATOGASTRIC GANGLION (BNS-7825549 A01)*; 12 MONTHS $50,000

ELMAN, JEFFREY; *SENSORY VERSUS COGNITIVE COMPONENTS OF SPEECH PERCEPTION (BNS-7901670 A01)*; 12 MONTHS $39,703

MANDLER, GEORGE; *ORGANIZATION AND STRUCTURE IN MEMORY (BNS-7915336 A01)*; $6,781

KRISTAN, WILLIAM B; *DEVELOPMENT OF REFLEX BEHAVIOR IN A SIMPLE NERVOUS SYSTEM (BNS-7923459)*; 12 MONTHS $65,000

BRADBURY, JACK W; *ECOLOGICAL FACTORS IN AVIAN SPACING PATTERNS (BNS-7923524*)*; 36 MONTHS $36,428

MCCLELLAND, JAMES L; *INFORMATION PROCESSING AND READING BASED ON THE CASCADE MODEL (BNS-7924062)*; 12 MONTHS $44,932

BRADBURY, JACK W; *EVOLUTION OF COOPERATIVE BEHAVIOR (DEB-8001165*)*; 12 MONTHS $24,604

LANGDON, MARGARET H; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (BNS-8001985)*; 12 MONTHS $2,818

ANDERSON, NORMAN H; *PROCESSING OF SOCIAL INFORMATION IN LONG-TERM RELATIONSHIPS (BNS-8004845)*; 24 MONTHS $90,058

HILLYARD, STEVEN A, AND KUTAS, MARTA; *SEMANTIC PROCESSING AND EVENT-RELATED BRAIN WAVES (BNS-8005525)*; 12 MONTHS $60,000

D'ANDRADE, ROY G; *PERSON PERCEPTION AND SOCIOCULTURAL CONTEXT (BNS-8005731)*; 12 MONTHS $46,012

D'ANDRADE, ROY G; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8016591)*; 18 MONTHS $6,867

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO-SCHOOL OF MEDICINE

GORDON, ADRIENNE S; *PHOSPHORYLATION OF THE ACETYLCHOLINE RECEPTOR (BNS-8013074)*; 12 MONTHS $45,998

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

HALL, ZACH W; *ACETYLCHOLINESTERASE AT THE NEUROMUSCULAR SYNAPSE: BIOCHEMICAL PROPERTIES AND REGULATION (BNS-7720566 A02)*; 12 MONTHS $29,961

REICHARDT, LOUIS F; *GENETIC INVESTIGATIONS OF NERVE FUNCTION IN CULTURE (BNS-7723951 A02)*; 12 MONTHS $34,000

EKMAN, PAUL, AND FRIESEN, WALLACE V; *WORKSHOP ON THE MEASUREMENT OF FACIAL EXPRESSIONS BY MEANS OF THE FACIAL ACTION CODING SYSTEM (BNS-8014154)*; 6 MONTHS $15,949

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

GOGEL, WALTER C; *PERCEPTUAL AND COGNITIVE COMPONENTS OF SPATIAL RESPONSES (BNS-7716020 A02)*; 12 MONTHS $34,000

REVLIN, RUSSELL; *COGNITIVE PROCESSES IN CATEGORICAL REASONING (BNS-7824763 A01)*; 12 MONTHS $26,241

LI, CHARLES N, AND THOMPSON, SANDRA A; *A SYNTACTIC SURVEY OF SELECTED CHINESE DIALECTS (BNS-7920944)*; 24 MONTHS $101,607

HETZRON, ROBERT; *SYNTAX, MORPHOLOGY AND GRAMMATICAL PROSODY OF HUNGARIAN (BNS-7911502)*; 24 MONTHS $61,229

HETZRON, ROBERT; *SYNTAX, MORPHOLOGY AND GRAMMATICAL PROSODY OF HUNGARIAN (BNS-7911502 A01)*; $12,155

BROWN, DONALD E; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8011030)*; 14 MONTHS $3,460

MCINTOSH, RODERICK J, AND MCINTOSH, SUSAN; *ARCHAEOLOGICAL INVESTIGATIONS IN THE INLAND NIGER DELTA, MALI (WEST AFRICA) (BNS-8004448)*; 24 MONTHS $78,601

JOCHIM, MICHAEL A; *MAN ENVIRONMENT RELATIONS IN THE SOUTHERN GERMAN MESOLITHIC (BNS-8006897)*; 12 MONTHS $20,679

BOHANNAN, PAUL J; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8008229)*; 12 MONTHS $4,200

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

NORRIS, KENNETH S; *BEHAVIOR OF THE HAWAIIAN SPINNER PORPOISE (BNS-7824483 A01)*; 12 MONTHS $93,915

UNIVERSITY OF SOUTHERN CALIFORNIA

ANDERSEN, ELAINE S; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (BNS-7920350)*; 12 MONTHS $4,547

HELLIGE, JOSEPH B; *SPECIALIZATION OF THE RIGHT AND LEFT CEREBRAL HEMISPHERES (BNS-7924445)*; 12 MONTHS $31,908

PARTRIDGE, WILLIAM L, AND BROWN, ANTOINETT B; *DIFFERENTIAL RESPONSE TO POPULATION DISPLACEMENT (BNS-8016741)*; 12 MONTHS $77,500

WRIGHT INSTITUTE

FURBY, LITA; *DEVELOPMENT OF POSSESSIVE AND ACQUISITIVE BEHAVIOR (BNS-772/151 A02)*; 12 MONTHS $33,635

COLORADO

COLORADO STATE UNIVERSITY

EVANS, HOWARD E; *FIXITY AND VARIABILITY IN BEHAVIOR (BNS-7926655)*; 15 MONTHS $41,887

ELLIS, JAMES E; *THE ECOLOGY OF SUBSISTENCE PASTORALISM (DEB-8004182*)*; 12 MONTHS $36,594

UNIVERSITY OF COLORADO AT BOULDER

MAIER, STEVEN F; *LEARNED HELPLESSNESS: LIMITS, ETIOLOGY, APPLICATIONS (BNS-7806568 A02)*; 12 MONTHS $47,490

THOMAS, DAVID R; *STIMULUS CONTROL OF BEHAVIOR (BNS-7801407 A02)*; 12 MONTHS $40,160

EATON, ROBERT C; *CELLULAR BASIS OF HABITUATION IN THE MAUTHNER CELL SYSTEM (BNS-7810697 A02)*; 12 MONTHS $32,000

PLOMIN, ROBERT J; *VIDEOTAPE ANALYSIS OF BEHAVIORAL DEVELOPMENT IN ONE-, TWO-, AND THREE-YEAR OLD ADOPTED AND CONTROL CHILDREN (BNS-7816504 A01)*; 12 MONTHS $45,777

BEKOFF, ANNE C; *NEURAL BASIS FOR THE DEVELOPMENT OF COORDINATED BEHAVIORS (BNS-7913020)*; 12 MONTHS $45,000

DUBIN, MARK W; *DEVELOPMENT OF NEURAL NETWORKS IN THE VERTEBRATE VISUAL SYSTEM (BNS-7914110 A01)*; 12 MONTHS $31,905

KELSO, A J; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7918330)*; 12 MONTHS $2,770

BEKOFF, MARC; *SOCIAL ECOLOGY OF FREE-RANGING COYOTES (BNS-7913442*)*; 12 MONTHS $17,143

WHEAT, JOE B; *STORAGE FACILITIES FOR THE UNIVERSITY OF COLORADO MUSEUM'S ANTHROPOLOGICAL COLLECTION (BNS-8006014)*; 12 MONTHS $39,742

VAN GERVEN, DENNIS P; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8010214)*; 12 MONTHS $3,129

UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER

FINGER, THOMAS E; *CHEMORENSORY PATHWAYS IN THE CENTRAL NERVOUS SYSTEM (BNS-7904910)*; 24 MONTHS $36,708

UNIVERSITY OF DENVER

FURMAN, WYNDOL; *EVALUATION OF A THEORY OF ACQUAINTANCE IN CHILDREN (BNS-8014691)*; 24 MONTHS $120,006

CONNECTICUT

UNIVERSITY OF CONNECTICUT

COOK, SCOTT; *PETTY COMMODITY PRODUCTION IN A CAPITALIST ECONOMY (BNS-7813943 A02)*; 12 MONTHS $73,121

KENNY, DAVID A; *MODERN METHODS OF DATA ANALYSIS IN SOCIAL PSYCHOLOGY (BNS-7913880)*; 24 MONTHS $64,397

TURVEY, M T; *DOCTORAL DISSERTATION IN LINGUISTICS (BNS-7914409)*; 18 MONTHS $3,920

WELLS, KENTWOOD D; *VOCAL COMMUNICATION IN NEOTROPICAL ANURAN AMPHIBIANS (BNS-8006518)*; 12 MONTHS $20,000

PELTO, PERTTI J; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8012833)*; 6 MONTHS $5,298

MILLER, DAVID B; *AUDITORY PERCEPTUAL SPECIFICITY OF BEHAVIORAL INHIBITION (BNS-8013501)*; 24 MONTHS $90,007

SANDERS, BARBARA; *BRAIN ORGANIZATION AND SPATIAL ABILITY (BNS-8014477)*; 24 MONTHS $49,979

YALE UNIVERSITY-SCHOOL OF MEDICINE

DAVIS, MICHAEL; *NEURAL MODULATION OF THE STARTLE RESPONSE (BNS-7817491 A01)*; 12 MONTHS $34,795

LENTZ, THOMAS L; *NEUROMUSCULAR JUNCTION AND NEUROTROPHIC MECHANISMS (BNS-7918999)*; 12 MONTHS $53,722

YALE UNIVERSITY

RODIN, JUDITH; *THE SIGNIFICANCE OF EXTERNAL AND SENSORY CUES FOR HUMAN EATING BEHAVIOR AND OBESITY: ETIOLOGY, FUNCTION, AND CONSEQUENCES (BNS-7911128 A03)*; 12 MONTHS $57,351

RICHARD, ALISON F; *ECOLOGY, BEHAVIOR AND BIOLOGY OF THE RHESUS MONKEY (BNS-7707343 A03)*; 12 MONTHS $29,400

WAGNER, ALLAN R; *EPISODIC INFORMATION PROCESSING IN ASSOCIATIVE LEARNING (BNS-7716896 A02)*; 12 MONTHS $49,714

PILBEAM, DAVID R; *HOMINOID EVOLUTION IN SOUTH ASIA AND THE ORIGINS OF HOMINIDAE (BNS-7725984 A02)*; 6 MONTHS $35,586

RESCORLA, ROBERT A; *ASPECTS OF PAVLOVIAN CONDITIONING (BNS-7909753 A02)*; 12 MONTHS $45,602

KNOWLTON, NANCY; *THE EVOLUTION OF FIGHTING BEHAVIOR (BNS-7908747 A01)*; 12 MONTHS $30,529

SCARR, SANDRA W; *DEVELOPMENTAL PATTERNS OF ABSTRACT REASONING SKILLS (BNS-7914149)*; 24 MONTHS $55,000

MERRICK, HARRY V; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7918946)*; 13 MONTHS $5,986

LOUNSBURY, FLOYD G; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (BNS-7909809)*; 12 MONTHS $4,416

HEALY, ALICE F; *THE SIZE AND THE NATURE OF READING UNITS (BNS-8000243)*; 24 MONTHS $100,000

CROWDER, ROBERT G; *THE REPRESENTATION OF SPEECH SOUNDS IN HUMAN MEMORY (BNS-8005459*)*; 24 MONTHS $109,799

PILBEAM, DAVID R, BEHRENSMEYER, ANNA K, AND BARRY, JOHN; *LATER MIOCENE HOMINOIDS AND THE ORIGINS OF HOMINIDAE (BNS-8007128)*; 12 MONTHS $139,586

PILBEAM, DAVID R, BEHRENSMEYER, ANNA K, AND BARRY, JOHN; *LATER MIOCENE HOMINOIDS AND THE ORIGINS OF HOMINIDAE (BNS-8007128 A01)*; $1,567

PILBEAM, DAVID R; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8007221)*; 24 MONTHS $2,644

WEISS, HARVEY; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8007991)*; 6 MONTHS $5,309

DELAWARE

UNIVERSITY OF DELAWARE

FARNHAM-DIGGORY, SYLVIA; *DEVELOPMENT OF GRAPHIC REPRESENTATION CONTROL MECHANISMS (BNS-7719196 A02)*; 12 MONTHS $44,777

IZARD, CARROLL E; *EMOTION EXPRESSIONS IN EARLY DEVELOPMENT (BNS-7904126 A02)*; 12 MONTHS $60,000

DISTRICT OF COLUMBIA

CATHOLIC UNIVERSITY OF AMERICA

DAHLIN, BRUCE H; *THE EL MIRADOR MAPPING PROJECT (BNS-7814774)*; 12 MONTHS $41,122

GALLAUDET COLLEGE

WOODWARD, JAMES C; *UNIVERSALITY AND UNIQUENESS IN SIGN LANGUAGES: PROVIDENCE ISLAND SIGN LANGUAGE (BNS-7900016 A02)*; 12 MONTHS $17,925

GEORGE WASHINGTON UNIVERSITY

TRUBATCH, JANETT; *ANATOMICAL CORRELATES OF NERVE-MUSCLE TRANSMISSION (BNS-7919189)*; 18 MONTHS $63,976

GEORGETOWN UNIVERSITY

POPPER, ARTHUR N; *ULTRASTRUCTURE OF THE EAR IN FISHES (BNS-8008240)*; 24 MONTHS $97,306

GEORGETOWN UNIVERSITY-SCHOOL OF MEDICINE

BUTLER, ANN B; *ORGANIZATION OF OPTIC TECTUM (BNS-7716001 A02)*; 12 MONTHS $44,286

DRETCHEN, KENNETH L; *CYCLIC NUCLEOTIDES AND NEUROMUSCULAR TRANSMISSION (BNS-7808640 A01)*; 12 MONTHS $60,005

POPPER, ARTHUR N, AND ANDREWS, PETER M; *MULTI-USER EQUIPMENT FOR STUDY OF THE ULTRASTRUCTURE OF SENSORY AND OTHER SYSTEMS (BNS-7917990*)*; 12 MONTHS $45,000

NATIONAL ACADEMY OF SCIENCES

SOLOMON, FREDERIC; *ASSESSMENT OF RESEARCH ON STRESS (BNS-8006541)*; 7 MONTHS $80,170

OVERSEAS DEVELOPMENT COUNCIL

HOSEN, ALLAN; *DECISION MAKING FOR DEVELOPMENT: AN ANTHROPOLOGICAL PERSPECTIVE (BNS-7910476)*; 9 MONTHS $44,934

SMITHSONIAN INSTITUTION

DITTUS, WOLFGANG P; *PRIMATE SOCIAL ORGANIZATION IN RELATION TO DEMOGRAPHY, GENEALOGY AND ENVIRONMENT* (BNS-7916057) 12 MONTHS $17,200

TRINITY COLLEGE

SANSBURY, RICHARD V; *PHASE-SPECIFIC MECHANISMS IN SPATIAL VISION* (BNS-7911531) 24 MONTHS $95,420

FLORIDA

FLORIDA STATE UNIVERSITY

WILLIAMS, THEODORE P, AND BAKER, BARBARA N; *ROLE OF THE MICROENVIRONMENT* (BNS-7808842 A02) 12 MONTHS $56,149

HERRNKIND, WILLIAM F; *MIGRATION IN MARINE CRUSTACEANS* (BNS-7817944 A01) 4 MONTHS $12,154

BERKLEY, KAREN J; *ULTRASTRUCTURAL INVESTIGATIONS OF THE INCORPORATION AND TRANSPORT OF LEUCINE AND PROLINE* (BNS-7905474 A01) 12 MONTHS $53,006

GRAZIADEI, PASQUALE P; *NEUROGENESIS AND PLASTICITY IN THE OLFACTORY SYSTEM OF MAMMALS* (BNS-8008959) 12 MONTHS $73,000

UNIVERSITY OF FLORIDA-COLLEGE OF MEDICINE

DAWSON, WILLIAM W; *PHYSIOLOGY OF VISION IN DOLPHINS AND OTHER CETACEANS* (BNS-7916159) 24 MONTHS $90,166

SCHOENFELD, THOMAS A, AND LEONARD, C M; *POSTNATAL DEVELOPMENT OF THE OLFACTORY SYSTEM* (BNS-7916990) 24 MONTHS $70,765

UNIVERSITY OF FLORIDA

DEWSBURY, DONALD A; *EXPERIMENTAL ANALYSIS OF THE BEHAVIOR OF A VARIETY OF MAMMALS* (BNS-7905173 A02) 12 MONTHS $50,300

TEAS, DONALD C; *DOCTORAL DISSERTATION RESEARCH IN SENSORY PHYSIOLOGY AND PERCEPTION* (BNS-7919169) 12 MONTHS $5,310

DOUGHTY, PAUL L; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY* (BNS-7919084) 10 MONTHS $5,750

BERNARD, H R; *OTOMI MONOLINGUAL ETHNOGRAPHY* (BNS-7905886) 24 MONTHS $16,173

UNIVERSITY OF MIAMI

EMILIANI, CESARE; *EXCAVATIONS AT LITTLE SALT SPRING, FLORIDA* (BNS-7916159 A01) $1,974

WADDINGTON, KEITH D; *INFORMATION USED IN FORAGING* (BNS-8004527*) 24 MONTHS $22,300

UNIVERSITY OF WEST FLORIDA

HAMILTON, PAUL V; *AN EVALUATION OF VISION IN STRUCTURALLY SIMPLE EYES* (BNS-7916359) 24 MONTHS $41,090

GEORGIA

EMORY UNIVERSITY

ZEILER, MICHAEL D; *TEMPORAL CONTEXT THEORY* (BNS-7908501 A02) 6 MONTHS $4,300

SCOTT, JOHN W, AND MCBRIDE, RUSSELL L; *ANALYSIS OF THE OLFACTORY PROJECTIONS IN THE RAT* (BNS-7816171 A01) 12 MONTHS $18,804

EMORY UNIVERSITY-YERKES REGIONAL PRIMATE RESEARCH CENTER

NADLER, RONALD D, BLANK, MICHAEL S, AND COLLINS, DELWOOD C; *ENDOCRINE FUNCTION IN PRIMATES* (BNS-7903915) 12 MONTHS $50,000

GEORGIA INSTITUTE OF TECHNOLOGY

DIEZ, JAMES A; *DEVELOPMENTAL GENETIC REGULATION OF BRAIN TRYPTOPHAN TRANSPORT* (BNS-7908480 A01) $6,512

GEORGIA STATE UNIVERSITY

BAKEMAN, ROGER; *DEVELOPMENT OF COMMUNICATION IN 0.11 MONTH OLD INFANTS* (BNS-8010969) 24 MONTHS $130,000

UNIVERSITY OF GEORGIA

KOWALEWSKI, STEPHEN A; *TLACOLULA VALLEY SETTLEMENT PATTERN PROJECT* (BNS-7914116) 24 MONTHS $104,302

MATTHEWS, ROBERT W; *EVOLUTION OF SOCIAL BEHAVIOR* (BNS-7915708) 18 MONTHS $59,190

TESSER, ABRAHAM; *SOCIAL BEHAVIOR AND SELF ESTEEM* (BNS-8007711) 24 MONTHS $79,392

HAWAII

CENTER FOR CULTURAL&TECH INTERCHG EAST&WEST

KUNSTADTER, PETER; *SOCIOECONOMIC, DEMOGRAPHIC AND ENVIRONMENTAL CHANGE IN NORTHERN THAILAND* (BNS-7914694) 12 MONTHS $95,475

UNIVERSITY OF HAWAII-MANOA

LOSEY, GEORGE S; *PROXIMATE CAUSES OF INTERSPECIFIC AGGRESSION* (BNS-7718867 A01) 12 MONTHS $20,000

HERMAN, LOUIS M; *DOLPHIN INFORMATION-PROCESSING CAPABILITIES* (BNS-7716982 A02) 12 MONTHS $43,079

HERMAN, LOUIS M; *BEHAVIORS AND SOCIAL ORGANIZATION OF HUMPBACK WHALES IN HAWAIIAN WATERS* (BNS-7716963 A02) 12 MONTHS $42,328

ILLINOIS

FIELD MUSEUM OF NATURAL HISTORY

LEWIS, PHILLIP H, AND RABINEAU, PHYLLIS; *REORGANIZATION OF THE NORTH AMERICAN ANTHROPOLOGICAL COLLECTION* (BNS-8002995) 12 MONTHS $40,045

ILLINOIS STATE MUSEUM

KAY, MARVIN; *THE DEVELOPMENT OF HORTICULTURE IN THE OZARK HIGHLAND* (BNS-8010307) 24 MONTHS $50,794

LOYOLA UNIVERSITY OF CHICAGO

YOST, WILLIAM A; *PITCH OF COMPLEX STIMULI* (BNS-7917514 A01) 12 MONTHS $27,313

BOWEN, RICHARD W; *TEMPORAL AND SPATIAL FACTORS IN HUMAN COLOR VISION* (BNS-7917779 A01) 12 MONTHS $28,310

YOST, WILLIAM A; *BINAURAL PROCESSING OF TEMPORAL SEQUENCE* (BNS-7908989 A01) 12 MONTHS $52,500

HAZLETT, JAMES C; *ONTOGENY AND PLASTICITY OF ASCENDING THALAMIC AFFERENTS IN THE OPOSSUM* (BNS-7914977) 12 MONTHS $50,000

GRANTHAM, D W; *DYNAMIC BINAURAL PROCESSING* (BNS-7913496) 12 MONTHS $58,300

LOYOLA UNIVERSITY OF CHICAGO-STRITCH SCHOOL OF MEDICINE

MC NULTY, JOHN A; *RHYTHMS, LIGHT AND PINEAL FUNCTION IN FISHES* (BNS-7906151 A01) 12 MONTHS $95,018

NORTHERN ILLINOIS UNIVERSITY

SMITH, HARVEY; *AGRICULTURAL DEVELOPMENT AND PEASANT SOCIAL ORGANIZATION* (BNS-7715409 A02) 12 MONTHS $63,005

LANGE, CHARLES H; *PUBLICATION OF MANUSCRIPT: ETHNOGRAPHY OF SANTA CLARA PUEBLO, NEW MEXICO* (BNS-7914491) 12 MONTHS $14,410

NORTHWESTERN UNIVERSITY

GESTELAND, ROBERT C; *TRANSMISSION AND CODING OF OLFACTORY INFORMATION IN RECEPTORS* (BNS-7917479 A01) 12 MONTHS $46,916

BUDJUSTRA, JANE E; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY* (BNS-7919449) 12 MONTHS $4,442

WIGHTMAN, FREDERICK L; *AUDITORY SPACE PERCEPTION* (BNS-8014744) 12 MONTHS $97,507

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

SMITH, DOUGLAS C; *EQUIPMENT FOR THE STUDY OF ELECTROPHYSIOLOGICAL AND BEHAVIORAL EVIDENCE FOR SUPPRESSION IN THE VISUAL SYSTEM* (BNS-8005251) 12 MONTHS $17,610

WOLFGIE, DENNIS L; *ACQUISITION OF EQUIPMENT FOR THE ANALYSIS OF BEHAVIORAL AND NEURAL PROCESSES* (BNS-8004479) 12 MONTHS $20,000

UNIVERSITY OF CHICAGO

KLEIN, RICHARD G; *ECOLOGY OF PREHISTORIC HUNTER-GATHERERS IN SOUTHERN AFRICA* (BNS-7916159) 12 MONTHS $10,391

MUNN, NANCY D; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY* (BNS-7919111) 24 MONTHS $9,025

SHEVELL, STEVEN K; *MECHANISMS OF ADAPTATION IN SUPRATHRESHOLD VISUAL PERCEPTION* (BNS-7916091) 12 MONTHS $97,939

NICHOLAS, RALPH W; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY* (BNS-7919710) 10 MONTHS $9,577

DIFFLOTH, GERARD P; *MON-KHMER ETYMOLOGICAL LEXICON* (BNS-7920900) 18 MONTHS $70,500

GOLDIN-MEADOW, SUSAN J; *LANGUAGE-LIKE SYSTEM CREATED BY DEAF CHILDREN* (BNS-8005110) 12 MONTHS $30,000

DUNCAN, STARKEY J, AND FISKE, DONALD W; *PARTICIPANTS' STRATEGIES IN FACE TO FACE INTERACTION* (BNS-8006416) 24 MONTHS $131,199

CARDWELL, JOHN, AND BURBANK, BONNIE L; *PRESERVATION OF THE ORIENTAL INSTITUTE'S PHOTOGRAPHIC ARCHIVE* (BNS-8003154) 12 MONTHS $15,000

SCHNEIDER, RICHARD A; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY* (BNS-8006127) 24 MONTHS $9,136

ADAMS, ROBERT M; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY* (BNS-8010914) 12 MONTHS $5,267

RIPS, LANCE J; *COGNITIVE PROCESSES IN PROPOSITIONAL REASONING* (BNS-8014177) 21 MONTHS $34,995

UNIVERSITY OF ILLINOIS AT URBANA

WYER, ROBERT S, AND SKULL, THOMAS K; *THE REPRESENTATION OF SOCIAL INFORMATION IN MEMORY AND ITS EFFECT ON SOCIAL JUDGEMENT* (BNS-7816486 A02) 24 MONTHS $130,000

BANKS, EDWIN M; *BEHAVIORAL ONTOGENY AND ACOUSTIC COMMUNICATION* (BNS-7808809 A02) 24 MONTHS $65,000

SATINOFF, EVELYN; *BEHAVIORAL AND PHYSIOLOGICAL THERMOREGULATION* (BNS-7709151 A02) $17,200

DAVIS, JAMES H; *GROUP DECISION MAKING AND PROBLEM SOLVING* (BNS-7715104 A02) 12 MONTHS $76,275

SALMON, MICHAEL; *DEVELOPMENTAL AND GENETIC STUDIES OF CRUSTACEAN DISPLAYS* (BNS-7711002 A02) 12 MONTHS $54,000

GREENOUGH, WILLIAM T; *A UNIFIED ANATOMICAL APPROACH TO MEMORY* (BNS-7716000 A02) 24 MONTHS $264,000

ORTONY, ANDREW H; *CROSS-CULTURAL RESEARCH ON ADULT PROCESSING AND CHILD DEVELOPMENT OF LANGUAGE* (BNS-7727179 A01) 24 MONTHS $62,041

FENG, ALBERT S; *THE NEURAL BASIS OF SOUND LOCALIZATION IN AN ANURAN (BNS-7912271 A01)*; 12 MONTHS $22,998

GILLETTE, RHANOR; *CYCLIC AMP REGULATES NEURON PLASTICITY VIA CALCIUM (BNS-7918329)*; 12 MONTHS $85,000

MEDIN, DOUGLAS L; *MEMORY PROCESSES AND CONTEXTUAL INFORMATION (BNS-7922678)*; 12 MONTHS $28,944

KISSEBERTH, CHARLES W, AND CHENG, CHINCHUAN; *TONOLOGY OF TANZANIAN BANTU (BNS-7924523)*; 24 MONTHS $83,121

CARTER, CAROL S; *HORMONES AND BEHAVIOR IN MICROTINE RODENTS (BNS-7925713)*; 24 MONTHS $67,000

ORTONY, ANDREW; *THE SIMILARITY/METAPHOR RELATION IN NATURAL LANGUAGE (BNS-8004541)*; 12 MONTHS $44,436

GROVE, DAVID C; *CHALCATZINGO ARCHAEOLOGICAL RESEARCH (BNS-8013770)*; 12 MONTHS $16,995

CLARK, ROGER G; *PUBLICATION OF MANUSCRIPT: CULTUTAL TRANSFORMATION AND ETHNICITY IN MODERN ECUADOR (BNS-8014327)*; 12 MONTHS $10,000

WHITTEN, NORMAN E; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8015469)*; 12 MONTHS $4,740

LEHMAN, FREDERIC K; *THE BURMESE PALACE LANGUAGE, NONSTANDARD BURMESE DIALECTS, AND THE DESCRIPTIVE AND COMPARATIVE LINGUISTICS OF BURMESE (BNS-8017894)*; 14 MONTHS $35,000

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

GUTH, SHERMAN L; *PSYCHOPHYSICAL STUDIES OF HUMAN COLOR VISION (BNS-7717289 A01)*; 12 MONTHS $64,860

ROBINSON, DONALD E; *SOME ASPECTS OF BINAURAL PROCESSING (BNS-7717308 A02)*; 12 MONTHS $28,131

WIGHTMAN, R MARK; *ELECTROANALYTICAL METHODS IN NEUROCHEMISTRY (BNS-7723254 A02)*; 12 MONTHS $36,000

SMITH, LINDA B; *DEVELOPMENTAL CHANGES IN PERCEIVED STIMULUS RELATIONS (BNS-7813019 A02)*; 12 MONTHS $22,958

RESTLE, FRANK; *CODING THEORY OF PERCEPTION (BNS-7907906 A01*)*; 12 MONTHS $52,029

ALBERTS, JEFFREY R; *LEARNING STRATEGIES AND ADAPTATIONS IN BEHAVIORAL DEVELOPMENT (BNS-7915116)*; 12 MONTHS $18,000

RICHMOND, ROLLIN C; *ESTERASE 6 AND REPRODUCTIVE BEHAVIOR IN DROSOPHILA (BNS-7921743*)*; 24 MONTHS $45,065

PETERSEN, MICHAEL R; *VOCAL-SOUND PERCEPTION BY MONKEYS (BNS-7924477)*; 12 MONTHS $51,394

NEFF, WILLIAM D; *SENSORY DISCRIMINATION (BNS-8005729)*; 12 MONTHS $37,000

ASLIN, RICHARD N; *DEVELOPMENT OF THE VISUAL SYSTEM IN HUMAN INFANTS (BNS-8013075)*; 12 MONTHS $55,058

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

HAFNER, GARY S; *CELLULAR PROCESSES INVOLVED IN THE RENEWAL OF PHOTOPIGMENT CONTAINING MEMBRANE IN AN INVERTEBRATE PHOTORECEPTOR (BNS-8004587)*; 12 MONTHS $40,927

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS-SCHOOL OF MEDICINE

PETERSON, RICHARD G; *MECHANISMS OF MYELINATION AND DEMYELINATION WITH RESPECT TO THE POSITIONAL RELATIONSHIPS OF PNS MYELIN PROTEINS (BNS-7800616 A02)*; 12 MONTHS $44,000

SUTHERS, RODERICK A; *COMPARATIVE LARYNGEAL MECHANISMS FOR THE PRODUCTION OF ULTRASOUND (BNS-7905606)*; 12 MONTHS $63,063

SUTHERS, RODERICK A; *THE ETHOLOGY AND PHYSIOLOGY OF ECHOLOCATION (BNS-7913968)*; 18 MONTHS $86,087

PETERSON, RICHARD G; *ACQUISITION OF AN ELECTRON MICROSCOPE AND EM X-RAY ANALYTICAL EQUIPMENT PRIMARILY FOR NEUROBIOLOGICAL RESEARCH (BNS-7914272)*; 12 MONTHS $110,000

PURDUE UNIVERSITY

ALTMAN, JOSEPH; *DEVELOPMENTAL NEUROBIOLOGY (BNS-7702957 A02)*; 12 MONTHS $45,000

SORKIN, ROBERT D; *AUDITORY SIGNAL PROCESSING (BNS-7713503 A02)*; 12 MONTHS $39,000

PAK, WILLIAM L; *EXCITATION MECHANISMS IN THE VISUAL PATHWAY (BNS-7718647 A02)*; 12 MONTHS $37,000

REGNIER, FRED E, AND BOTTOMS, GERALD D; *CHEMICAL COMMUNICATION IN CANIDS (BNS-7816256 A02)*; 12 MONTHS $58,711

PEPPERBERG, IRENE M; *AVIAN MODEL FOR COGNITIVE LANGUAGE ACQUISITION (BNS-7912545 A01)*; 12 MONTHS $24,944

TOWNSEND, JAMES T; *MATHEMATICAL AND EMPIRICAL RESEARCH IN HUMAN INFORMATION PROCESSING (BNS-7920298)*; 12 MONTHS $49,096

BAYER, SHIRLEY A; *ONTOGENY OF THE LIMBIC AND OLFACTORY SYSTEMS (BNS-7921303)*; 12 MONTHS $64,487

CAPALDI, EGIDIO J; *SERIAL PATTERN LEARNING (BNS-8001171)*; 12 MONTHS $33,655

EAGLY, ALICE H; *GENDER DIFFERENCES IN INFLUENCEABILITY (BNS-8023111)*; 9 MONTHS $24,300

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

RANDIC, MIRJANA; *SUBSTANCE P EXCITATORY ACTION ON SPINAL SENSORY NEURONS (BNS-7723871 A02)*; 12 MONTHS $34,705

PLAKANS, ANDREJS; *THE KINSHIP CONTENT OF SOCIO-ECONOMIC TRANSACTIONS IN PREMODERN EUROPE (BNS-7926704*)*; 36 MONTHS $45,687

BLAUSTEIN, JEFFREY D; *NEUROENDOCRINE REGULATION OF BEHAVIOR (BNS-8013050)*; 36 MONTHS $150,000

UNIVERSITY OF IOWA

GORMEZANO, ISIDORE; *CLASSICAL DEFENSE AND REWARD CONDITIONING (BNS-8005907)*; 12 MONTHS $49,999

KANSAS

KANSAS STATE UNIVERSITY

KAMMER, ANN E; *SENSORY MODULATION OF CENTRAL NEURAL MECHANISMS COORDINATING RHYTHMIC MOVEMENT (BNS-7923096)*; 24 MONTHS $72,000

CLARK, GEORGE R; *MOLLUSCAN GROWTH LINE ANALYSIS AND COASTAL ARCHEOLOGY (BNS-8007903)*; 12 MONTHS $58,948

MENNINGER FOUNDATION

SHAND, NANCY; *EARLY MOTHER-INFANT INTERACTION AND CHILD DEVELOPMENT (BNS-8007131)*; 12 MONTHS $100,000

UNIVERSITY OF KANSAS MAIN CAMPUS

MICHENER, CHARLES D; *EVOLUTION OF SOCIALITY IN HYMENOPTERA (BNS-7907707 A02)*; 12 MONTHS $28,552

JOHNSON, ALFRED E; *UPGRADING THE GEORGE W. REED (NORTHWEST COAST) SYSTEMATIC ANTHROPOLOGICAL RESEARCH COLLECTION (BNS-7914090)*; 12 MONTHS $21,522

ADAMS, RALPH N; *BIOGENIC AMINE RELEASE IN CNS TISSUE: ELECTROCHEMICAL MONITORING (BNS-7914226 A01)*; 12 MONTHS $43,263

BELL, WILLIAM J; *COURSE CONTROL IN ANIMAL ORIENTATION (BNS-8005284)*; 24 MONTHS $80,000

BELL, WILLIAM J; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8007558*)*; 8 MONTHS $1,995

KENTUCKY

UNIVERSITY OF LOUISVILLE-SCHOOL OF MEDICINE

WILSON, RONALD S; *DEVELOPMENTAL TRENDS IN TEMPERAMENT AND SOCIAL RESPONSIVENESS (BNS-8018159)*; 12 MONTHS $20,000

LOUISIANA

TULANE UNIVERSITY

ANDREWS, E WYLLYS V; *EARLY COMMUNITY FORM AT KOMCHEN, NORTHWESTERN YUCATAN, MEXICO (BNS-7912960)*; 12 MONTHS $47,705

HEALAN, DAN M; *OBSIDIAN WORKSHOP PRODUCTION (BNS-7924754)*; 12 MONTHS $58,228

MAINE

PENOBSCOT INDIAN NATION

SIEBERT, FRANK T; *PENOBSCOT LEXICON (BNS-7924805)*; 12 MONTHS $34,851

UNIVERSITY OF MAINE, BANGOR

HUSTON, JAMES S; *SCIENTIFIC EQUIPMENT FOR AN IMPROVED ULTRACENTRIFUGATION FACILITY (BNS-7919655)*; 12 MONTHS $28,000

UNIVERSITY OF MAINE, ORONO

BONNICHSEN, ROBSON, BORNS, HAROLD W, AND DAVIS, RONALD B; *MUNSUNGUN LAKE ARCHAEOLOGICAL RESEARCH PROJECT (BNS-8006452)*; 12 MONTHS $53,055

MARYLAND

BUREAU OF THE CENSUS

LEVINE, DANIEL B; *SUPPORT FOR INTERAGENCY PANELS: EARLY CHILDHOOD RESEARCH AND DEVELOPMENT, AND DEVELOPMENT IN ADOLESCENCE (BNS-8005063*)*; 12 MONTHS $10,000

CARNEGIE INSTITUTION OF WASHINGTON-CARNEGIE INSTITUTION OF WASHINGTON-MD

ROTUNDO, RICHARD L; *NEURAL CONTROL OF ACETYLCHOLINESTERASE GENE EXPRESSION (BNS-8015778)*; 12 MONTHS $69,845

JOHN F KENNEDY INST FOR HANDICAPPED CHILDREN

SINGH, INDERJIT; *NEW ENZYME FOR CERAMIDE SYNTHESIS AND ITS ROLE IN MYELINATION (BNS-7923017)*; 12 MONTHS $57,000

JOHNS HOPKINS UNIVERSITY

COHEN, DAVID W; *HISTORICAL ANTHROPOLOGY OF THE LAKES PLATEAU REGION (BNS-7810138 A01)*; 12 MONTHS $17,830

AHERN, EMILY M; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8004848)*; 22 MONTHS $4,675

BLASS, ELLIOTT M, AND MACFARLANE, BRUCE A; *SENSORIMOTOR CONTROL OVER EARLY INGESTIVE BEHAVIOR (BNS-8005837)*; 24 MONTHS $54,976

HULSE, STEWART H; *SERIAL PATTERN LEARNING (BNS-8014137)*; 12 MONTHS $50,000

JOHNS HOPKINS UNIVERSITY-SCHOOL OF MEDICINE

WALKER, ALAN C; *DIETARY HYPOTHESES AND HOMINID EVOLUTION (BNS-7824499 A01)*; 12 MONTHS $24,623

KRISTT, DONALD A; *NEURONAL CIRCUITRY IN INFANT CEREBRAL CORTEX: AN ANATOMICAL STUDY (BNS-7911514 A01)*; 12 MONTHS $33,504

GOLDSTEIN, MOISE H; *A NEUROPHYSIOLOGICAL STUDY OF SOUND LOCALIZATION (BNS-7924519)*; 12 MONTHS $75,785

NATIONAL INSTITUTES OF HEALTH

WHITNEY, ROBERT A; *INTERNATIONAL PRIMATE SUPPLY PROGRAM (BNS-8023711)*; 12 MONTHS $10,000

UNIVERSITY OF MARYLAND BALTIMORE PROF SCHOOLS

WEINREICH, DANIEL; *ROLE OF HISTAMINE AS A NEUROTRANSMITTER IN THE CENTRAL NERVOUS SYSTEM (BNS-7719034 A02)*; 12 MONTHS $74,399

GLASER, EDMUND M; *NEURONAL TOPOGRAPHY AND FUNCTION IN THE AUDITORY CORTEX (BNS-7805502 A02)*; 12 MONTHS $43,045

HUDSON, C; *MAMMALIAN SYNAPTIC DEVELOPMENT (BNS-7812317 A02)*; 12 MONTHS $46,273

REES, ROSEMARY P; *SYNAPTIC MEMBRANE DYNAMICS DURING DEVELOPMENT AND DEGENERATION (BNS-8004865)*; 12 MONTHS $60,000

MULLINS, LORIN J; *THE RELEASE OF H+ IN RESPONSE TO CA ENTRY IN SQUID AXONS (BNS-8006271)*; 24 MONTHS $44,300

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

HANSON, FRANK E; *PHYSIOLOGICAL AND CHEMICAL BASIS OF HOST-PLANT RECOGNITION BY INSECTS (BNS-7914043)*; 12 MONTHS $23,381

UNIVERSITY OF MARYLAND, COLLEGE PARK

STEINMAN, ROBERT M; *HUMAN OCULOMOTOR CAPACITY (BNS-7716474 A02)*; 12 MONTHS $60,000

BUCHLER, EDWARD R; *THE ORIENTATION BEHAVIOR OF BATS AND SHREWS (BNS-8004511)*; 24 MONTHS $78,937

SHAMOO, ADIL E; *MULTIUSER EQUIPMENT PROPOSAL (BNS-8004877)*; 12 MONTHS $22,000

MASSACHUSETTS

BETH ISRAEL HOSPITAL-BOSTON

MESULAM, MAREK M; *NEUROHISTOCHEMISTRY FOR CEREBRAL CONNECTIONS (BNS-7823610 A01)*; 12 MONTHS $47,968

BOSTON UNIVERSITY

KELSO, GERALD K; *PALYNOLOGICAL RESEARCH EQUIPMENT (BNS-7924470)*; 12 MONTHS $21,553

BOSTON UNIVERSITY-SCHOOL OF MEDICINE

OBLER, LORAINE K, AND MENN, LISE; *A SYMPOSIUM: EXCEPTIONAL LANGUAGE AND LINGUISTIC THEORY-DECEMBER 1979, LOS ANGELES, CA (BNS-7914139)*; 6 MONTHS $5,882

ROSENE, DOUGLAS L; *ANATOMY OF THE LIMBIC SYSTEM IN PRIMATES (BNS-7924089)*; 12 MONTHS $71,000

BRANDEIS UNIVERSITY

BARUCH, GRACE K, AND BARNETT, ROSALIND C; *WOMEN IN THE MIDDLE YEARS: VARIATIONS IN ISSUES AND WELL-BEING (BNS-7726756 A01)*; 12 MONTHS $10,049

COWGILL, GEORGE L; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7920938)*; 15 MONTHS $4,891

DAVIS, MARVIN; *LEGAL USE AND LEGAL CHANGE (BNS-7924740*)*; 15 MONTHS $31,042

JACOBSON, DAVID; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8007890)*; 12 MONTHS $1,960

DAVIS, MARVIN; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8015758)*; 12 MONTHS $4,550

CHILDREN'S HOSPITAL MEDICAL CENTER

CARLSON, MARY; *SENSORIMOTOR CORTEX IN PROSIMIAN PRIMATES (BNS-7914102 A01)*; 12 MONTHS $39,478

HARVARD UNIVERSITY-HARVARD MEDICAL SCHOOL

HILDEBRAND, JOHN G; *CELLULAR AND MOLECULAR ANALYSIS OF NEURAL DEVELOPMENT (BNS-7713981 A02)*; 12 MONTHS $77,256

DAHL, DORIS; *BRAIN FILAMENT PROTEINS IN VERTEBRATES (BNS-7912962 A01)*; 12 MONTHS $46,360

BRIDGES, ROBERT S; *ENDOCRINE AND NEURAL REGULATION OF MATERNAL BEHAVIOR (BNS-8014670*)*; 12 MONTHS $31,100

HARVARD UNIVERSITY

MCCLELLAND, DAVID C; *THE SOCIAL FUNCTIONING OF THE NEED FOR POWER AND THE NEED FOR AFFILIATION (BNS-7680965 A04)*; 12 MONTHS $57,300

KUNO, SUSUMU; *DISCOURSE GRAMMAR (BNS-7681732 A02)*; 24 MONTHS $57,072

GREEN, DAVID M; *QUANTITATIVE MODELS IN PSYCHOPHYSICS (BNS-7716472 A02)*; 12 MONTHS $60,000

LUBIN, DAVID A; *STRUCTURE AND SEQUENCE IN SOCIAL DEVELOPMENT: A COGNITIVE AND BEHAVIORAL ANALYSIS OF THE NON-HOSTILE SOCIAL CONTACT (BNS-7809119 A01)*; $9,533

HEATH, JEFFREY G; *DIFFUSIONAL LINGUISTICS IN URBAN MOROCCAN SITES (BNS-7904779 A01)*; $4,168

HRDY, DANIEL B; *BEHAVIOR, GENETICS, AND DISEASES OF THE HANUMAN LANGUR (PRESBYTIS ENTELLUS) (BNS-7908267)*; 12 MONTHS $46,334

GREEN, DAVID M; *ACQUISITION OF A MULTI-USER COMPUTER SYSTEM (BNS-7908533*)*; 12 MONTHS $73,536

CRONIN, JOHN E; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7920525)*; 12 MONTHS $9,592

ESTES, WILLIAM K; *PROCESSES OF SHORT-TERM MEMORY AND ATTENTION (BNS-7921028 A01)*; 12 MONTHS $53,838

DEVORE, IRVEN; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7923014*)*; 24 MONTHS $991

KONNER, MELVIN J; *LIFE CYCLE DEVELOPMENT (BNS-7923717)*; 24 MONTHS $41,135

WINNER, ELLEN, AND GARDNER, HOWARD; *THE DEVELOPMENT OF METAPHORIC OPERATIONS (BNS-7924480)*; 12 MONTHS $59,960

PERKINS, DAVID N; *A 'GOOD FORM' THEORY OF SHAPE AND SLANT PERCEPTION (BNS-7924746)*; 24 MONTHS $38,544

DEVORE, IRVEN; *DEMOGRAPHY AND ECOLOGY OF TWO FOREST POPULATIONS (BNS-7926640)*; 12 MONTHS $78,596

HOLLDOBLER, BERT K; *BEHAVIORAL MECHANISMS OF FORAGING AND TERRITORIAL CONTROL (BNS-8002613)*; 12 MONTHS $44,390

TRINKAUS, ERIK; *PALEONTOLOGICAL STUDY AND CASTING OF THE SHANIDAR NEANDERTHALS (BNS-8004578)*; 12 MONTHS $6,087

JUDD, CHARLES M; *ATTITUDES AND INFORMATION PROCESSING (BNS-8005737)*; 12 MONTHS $30,032

GREEN, DAVID M; *AN OPERANT ANALYSIS OF CERTAIN 'HIGHER MENTAL PROCESSES' (BNS-8007343)*; 12 MONTHS $15,000

KAGAN, JEROME; *DOCTORAL DISSERTATION RESEARCH IN MEMORY AND COGNITIVE PROCESSES (BNS-8013447)*; 9 MONTHS $7,468

HARVARD UNIVERSITY-PEABODY MUSEUM

MOVIUS, HALLAM L; *ABRI PATAUD PUBLICATION (BNS-7912955)*; 36 MONTHS $23,242

MARINE BIOLOGICAL LABORATORY

BEAUGE, L A; *RELATIONSHIP BETWEEN BIOCHEMICAL EVENTS AND CATION TRANSLOCATION BY THE SODIUM PUMP OF SQUID AXONS (BNS-7923134)*; 12 MONTHS $9,345

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

BRAIDA, LOUIS D, AND DURLACH, NATHANIEL I; *INTENSITY PERCEPTION AND LOUDNESS (BNS-7716861 A02)*; 12 MONTHS $55,000

DURLACH, NATHANIEL I, AND BRAIDA, LOUIS D; *TACTILE COMMUNICATION OF SPEECH (BNS-7721751 A01)*; 12 MONTHS $104,800

GRAYBIEL, ANN M; *AN EXPERIMENTAL ANATOMICAL STUDY OF THE OCULOMOTOR SYSTEM (BNS-7810549 A02)*; 12 MONTHS $78,923

CHOMSKY, NOAM A; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (BNS-7923098)*; 12 MONTHS $2,500

WALKER, EDWARD; *CENTER FOR COGNITIVE SCIENCE MULTI-USER LABORATORY COMPUTER (BNS-7923129*)*; 12 MONTHS $89,323

SIEBERT, WILLIAM M; *MATHEMATICAL MODELS OF COCHLEAR MECHANICS (BNS-8006369)*; 12 MONTHS $47,000

NAUTA, WALLE J; *A NEUROANATOMICAL ANALYSIS OF THE MESENCEPHALO-LIMBIC CONNECTION (BNS-8007905)*; 12 MONTHS $46,621

BRESNAN, JOAN W; *GRAMMATICAL REPRESENTATION AND GRAMMATICAL PROCESSING (BNS-8014730)*; 12 MONTHS $100,511

POTTER, MARY C; *COMPREHENSION OF WRITTEN AND PICTURED INFORMATION (BNS-8015597)*; 15 MONTHS $100,169

NORTHEASTERN UNIVERSITY

LANE, HARLAN; *MULTI-USER EQUIPMENT FOR STUDIES IN EXPERIMENTAL PSYCHOLOGY (BNS-7913558*)*; 12 MONTHS $92,044

BLOCK, MARTIN L; *MATERNAL CHEMOSIGNALS AND MOTHER-YOUNG INTERACTIONS DURING WEANING (BNS-7923704)*; 24 MONTHS $32,000

PEABODY MUSEUM OF SALEM

FETCHKO, PETER J; *INVENTORY, CARE AND PRESERVATION OF THE PACIFIC COLLECTION (BNS-8005461)*; 12 MONTHS $51,730

RETINA FOUNDATION

HARTLINE, PETER H, AND NEWMAN, ERIC A; *MULTIMODAL INTEGRATION IN THE OPTIC TECTUM (BNS-8015839)*; 12 MONTHS $64,396

ROBERT S PEABODY FOUNDATION OF ARCHAEOLOGY

MACNEISH, RICHARD S; *ARCHAEOLOGICAL RECONNAISSANCE IN BRITISH HONDURAS (BNS-7923450)*; 6 MONTHS $29,088

SIDNEY FARBER CANCER INSTITUTE INC

WAGNER, JOHN A; *BIOCHEMISTRY OF MEMBRANE FUSION IN A PHEOCHROMACYTOMA CELL LINE (BNS-8005752)*; 12 MONTHS $50,000

TUFTS UNIVERSITY-SCHOOL OF MEDICINE

MAUTNER, HENRY G; *BIOCHEMICAL ASPECTS OF NERVE FUNCTION (BNS-7722356 A02)*; 12 MONTHS $47,000

MAUTNER, HENRY G; *STUDIES OF CHOLINE ACETYLTRANSFERASE (BNS-7906188 A01)*; 12 MONTHS $40,000

UNIVERSITY OF LOWELL

SILKA, LINDA; *COGNITIVE DETERMINANTS OF THE MISJUDGMENT OF SOCIAL CHANGE (BNS-8011579)*; 12 MONTHS $19,682

UNIVERSITY OF MASSACHUSETTS, AMHERST

DETHIER, VINCENT G; *NEURAL ANALYSIS OF FEEDING BEHAVIOR (BNS-7801178 A02)*; 12 MONTHS $48,058

EPSTEIN, SEYMOUR; *STABILITY OF PHYSIOLOGICAL REACTIVITY DURING EMOTIONAL EXPERIENCE (BNS-7812336 A02)*; 12 MONTHS $42,501

DAEHLER, MARVIN W, ANDERSON, DANIEL R, AND MYERS, NANCY; *CHILD STUDY CENTER FACILITY (BNS-7822970 A01*)*; 12 MONTHS $16,258

HALPERN, JOEL M; *SYNCHRONIC AND DIACHRONIC APPROACHES TO SOCIAL STRUCTURE (BNS-7913852 A01)*; 12 MONTHS $48,675

RAYNER, KEITH, AND FRAZIER, LYN; *LANGUAGE PROCESSING DURING READING (BNS-7917600)*; 12 MONTHS $37,812

STRICKLAND, BONNIE R; *PERCEPTUAL AND COGNITIVE ASPECTS OF DEPRESSION (BNS-7924158)*; 24 MONTHS $68,930
EAGLY, ALICE H; *GENDER DIFFERENCES IN INFLUENCEABILITY (BNS-7924471)*; 12 MONTHS $21,119
ANDERSON, DANIEL R; *CHILDREN'S TELEVISION VIEWING BEHAVIOR (BNS-7924658)*; 12 MONTHS $66,514
MYERS, JEROME L; *MEMORY STRUCTURES AND PROCESSES (BNS-8001181)*; 12 MONTHS $32,665
FITE, KATHERINE V; *NEUROBIOLOGICAL AND BEHAVIORAL STUDIES OF VISION (BNS-8012350)*; 12 MONTHS $39,513
ROEPER, THOMAS; *EXPERIMENTAL AND THEORETICAL APPROACHES TO A THEORY OF LANGUAGE ACQUISITION (BNS-8014326)*; 24 MONTHS $89,886
ARMELAGOS, GEORGE J; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8016652)*; 24 MONTHS $10,000
ARMELAGOS, GEORGE J; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8016654)*; 7 MONTHS $5,000
KROODSMA, DONALD E; *SIGNIFICANCE OF SENSITIVE PERIODS IN VOCAL LEARNING (BNS-8040282)*; 12 MONTHS $33,403

UNIVERSITY OF MASSACHUSETTS, BOSTON

MOORE, CELIA L; *HORMONES AND EXPERIENCE IN GENDER DIFFERENTIATION (BNS-8014669)*; 12 MONTHS $47,986

WELLESLEY COLLEGE

MERRY, SALLY E, AND SILBEY, SUSAN S; *LEGITIMACY AND COERCION IN INFORMAL COMMUNITY JUSTICE (SES-8012034*)*; 27 MONTHS $20,000

WILLIAMS COLLEGE

ZOTTOLI, STEVEN J; *REGENERATION OF VERTEBRATE CENTRAL NEURONS (BNS-7924655)*; 24 MONTHS $108,983

WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY

MORGANE, PETER J; *ARCHICORTICAL-LIMBIC FORMATIONS OF DOLPHIN BRAIN (BNS-7708660 A02)*; 12 MONTHS $46,600
MORGANE, PETER J; *RELATIONSHIP OF BRAINSTEM SYSTEMS REGULATING SLEEP-WAKING ACTIVITY (BNS-7716512 A02)*; 12 MONTHS $65,500
JAHAN PARWAR, BEHRUS; *NEURAL PROCESSING OF SENSORY INFORMATION (BNS-7724174 A02)*; 12 MONTHS $64,302
MACRIDES, FOTEOS; *OLFACTORY UNIT RESPONSES (BNS-7806248 A02)*; 12 MONTHS $73,705

MICHIGAN

EASTERN MICHIGAN UNIVERSITY

FINKLER, KAJA; *INDIGENOUS NON-MEDICAL HEALING TECHNIQUES (BNS-8013077)*; 16 MONTHS $40,000

MICHIGAN STATE UNIVERSITY

KERR, NORBERT L; *MOTIVATION IN TASK-PERFORMING GROUPS (BNS-7927205)*; 24 MONTHS $39,966

UNIVERSITY OF MICHIGAN-MEDICAL SCHOOL

WATSON, STANLEY J; *ANATOMICAL AND PHYSIOLOGICAL STUDIES OF BRAIN (BNS-8004512)*; 12 MONTHS $70,000

UNIVERSITY OF MICHIGAN

WOLPOFF, MILFORD H; *EVOLUTION OF TOOTH FUNCTION AND CRANIOFACIAL FORM (BNS-7633729 A02)*; 12 MONTHS $64,775
ZAJONC, ROBERT B; *FAMILY CONFIGURATION AND INTELLECTUAL DEVELOPMENT (BNS-7713973 A02)*; 12 MONTHS $116,037
JONIDES, JOHN; *SELECTIVE ATTENTION IN THE VISUAL FIELD (BNS-7716887 A02)*; 12 MONTHS $31,405
STEBBINS, WILLIAM C, MOODY, DAVID B, AND BEECHER, MICHAEL D; *CHARACTERISTICS OF HEARING AND ITS EVOLUTION IN VERTEBRATES (BNS-7719254 A03)*; 12 MONTHS $60,000
PAYNE, ROBERT B; *ECOLOGICAL CONSEQUENCES OF INTRASPECIFIC MIMETIC BEHAVIOR (BNS-7909178 A01)*; 4 MONTHS $3,355
GNEGY, MARGARET E; *ADENYLATE CYCLASE ACTIVATOR: ROLE IN NEUROPHARMACOLOGY (BNS-7806964 A02)*; 12 MONTHS $33,000
COOMBS, CLYDE H; *JUDGMENT AND PREFERENTIAL CHOICE (BNS-7909101 A02)*; 12 MONTHS $56,449
VERTES, ROBERT P; *BRAINSTEM UNITS: RESPONSE DURING BEHAVIOR AND SLEEP (BNS-7810136 A02)*; 12 MONTHS $40,000
BURNSTEIN, EUGENE; *THE INFORMATIONAL BASIS OF SOCIAL INFLUENCE (BNS-7915416)*; 12 MONTHS $56,325
KELLY, RAYMOND C; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7916356)*; 24 MONTHS $8,991
PARSONS, JEFFREY R; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7920055)*; 12 MONTHS $4,988
WORTMAN, CAMILLE B; *PSYCHOLOGICAL REACTIONS TO UNCONTROLLABLE LIFE EVENTS (BNS-7921450 A01)*; 12 MONTHS $83,424
BRACE, C LORING; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7921733)*; 12 MONTHS $4,852
FRISANCHO, A R; *ADOLESCENT PREGNANCY AND BIRTH WEIGHT OF OFFSPRING (BNS-7924735)*; 12 MONTHS $51,913
SPETH, JOHN D; *SUBSISTENCE-SETTLEMENT SYSTEMS IN SOUTHEASTERN NEW MEXICO (BNS-7924768)*; 24 MONTHS $38,892
PARSONS, JEFFREY R; *PUBLICATION: 'PREHISPANIC SETTLEMENT PATTERNS IN THE SOUTHERN VALLEY OF MEXICO: THE CHALCO-XOCHIMILCO REGION (BNS-8002013)*; 12 MONTHS $6,500
MARKUS, HAZEL; *THE SELF AS A SYSTEM OF SCHEMAS: A COGNITIVE APPROACH (BNS-8005749)*; 24 MONTHS $92,243
FORD, RICHARD I; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8007130)*; 12 MONTHS $1,650
FORD, RICHARD I; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8011439)*; 12 MONTHS $2,210
MISTRETTA, CHARLOTTE M, AND BRADLEY, ROBERT M; *DEVELOPMENT OF TASTE FUNCTION (BNS-8015737)*; 12 MONTHS $57,803

WAYNE STATE UNIVERSITY

GOODMAN, MORRIS; *BIOMOLECULAR SYSTEMATICS OF PRIMATES AND OTHER BUTHERIA (DEB-7810717 A01*)*; 12 MONTHS $32,000
BROWNER, CAROLE; *USES OF TRADITIONAL PLANT REMEDIES IN A RURAL COMMUNITY (BNS-8016431)*; 6 MONTHS $5,000

MINNESOTA

UNIVERSITY OF MINNESOTA

SNYDER, MARK; *COGNITIVE, BEHAVIORAL, AND INTERPERSONAL CONSEQUENCES OF SOCIAL PERCEPTION (BNS-7711346 A02)*; 12 MONTHS $61,353
PICK, HERBERT L, AND OVERMIER, J BRUCE; *CENTER FOR RESEARCH IN HUMAN LEARNING (BNS-7722075 A02)*; 12 MONTHS $46,307
FOHLMEISTER, JURGEN F; *BASIC MECHANISMS OF NEURONAL EXCITATION (BNS-7722532 A02)*; 12 MONTHS $33,000
OVERMIER, J BRUCE; *CONDITIONING AND THE MEDIATION OF AVOIDANCE BEHAVIOR (BNS-7728161 A02)*; 12 MONTHS $41,469
POPPELE, RICHARD E; *BASIC MECHANISMS UNDERLYING THE BEHAVIOR OF MAMMALIAN MUSCLE SPINDLES (BNS-7825168 A01)*; 12 MONTHS $25,000
LABERGE, DAVID L; *PERCEPTUAL INFORMATION PROCESSING (BNS-7904677 A01)*; 15 MONTHS $51,070
MCKINNEY, D FRANK; *TEMPORAL FACTORS INFLUENCING FERTILIZATION (BNS-7924692)*; 24 MONTHS $56,000
BOUCHARD, THOMAS J; *A PSYCHOLOGICAL STUDY OF MONOZYGOTIC AND DYZYGOTIC TWINS REARED APART (BNS-7926854)*; 12 MONTHS $50,000
SROUFE, L A; *EARLY SOCIO-EMOTIONAL DEVELOPMENT AND SUBSEQUENT ADAPTATION IN THE PRE-SCHOOL (BNS-8004572)*; 12 MONTHS $77,541

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI-UNIVERSITY OF MISSISSIPPI MEDICAL CENTER

KLEIN, RICHARD L, AND THURESON KLEIN , ASA K; *LARGE DENSE CORED VESICLES AND EXOCYTOSIS IN BOVINE MODELS (BNS-7912951)*; 24 MONTHS $80,000

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA-SCHOOL OF MEDICINE

BYLUND, DAVID B; *IN VITRO CHARACTERIZATION OF CENTRAL CATECHOLAMINERGIC RECEPTORS (BNS-7824715 A01)*; 12 MONTHS $40,000

UNIVERSITY OF MISSOURI, COLUMBIA

GERHARDT, H CARL; *MECHANISMS OF ACOUSTIC COMMUNICATION (BNS-7804237 A02*)*; 12 MONTHS $40,693
COOPER, HARRIS M, AND GOOD, THOMAS L; *COMMUNICATING EXPECTATIONS: A THEORY AND INTERVENTION (BNS-7908834 A01)*; 12 MONTHS $25,921
COBEAN, ROBERT H, AND VOGT, JAMES R; *A DEFINITIVE TRACE ELEMENT ANALYSIS PROGRAM FOR MESOAMERICAN OBSIDIANS (BNS-7915409 A01)*; 12 MONTHS $68,644
THELEN, ESTHER; *SPONTANEOUS MOTOR PATTERNS IN HUMAN INFANTS (BNS-8004872)*; 24 MONTHS $94,448
BENFER, ALICE N, AND PEARSALL, DEBORAH M; *CONSERVATION AND CATALOGING OF BOTANICAL MATERIALS OF THE AMERICAN ARCHAEOLOGY DIVISION (BNS-8005717)*; 24 MONTHS $27,246
JEN, PHILIP S; *PROCESSING OF ACOUSTIC SIGNALS BY CEREBELLAR NEURONS IN FM AND CF-FM BATS (BNS-8007348)*; 12 MONTHS $59,964

UNIVERSITY OF MISSOURI, ST LOUIS

PLATTNER, STUART; *ECONOMIC BEHAVIOR OF SMALL FIRMS IN AN URBAN FARMERS' MARKET (BNS-7808004 A01)*; $1,700

WASHINGTON UNIVERSITY-SCHOOL OF MEDICINE

THALMANN, RUEDIGER; *COCHLEAR ION TRANSPORT (BNS-7716842 A02)*; 12 MONTHS $35,122
FUKAMI, YASUSHI; *SENSORY TRANSDUCTION IN GOLGI TENDON ORGANS (BNS-7721801 A02)*; 12 MONTHS $59,380
AGRAWAL, HARISH C; *PROTEINS OF THE CENTRAL NERVOUS SYSTEM MYELIN (BNS-7824739 A01)*; 12 MONTHS $45,000
SANES, JOSHUA R; *THE SYNAPTIC CLEFT OF THE NEUROMUSCULAR JUNCTION (BNS-7923798)*; 12 MONTHS $99,554

WASHINGTON UNIVERSITY

SUGA, NOBUO; *FUNCTIONAL ORGANIZATION OF AUDITORY CORTEX OF BATS (BNS-7812987 A02)*; 12 MONTHS $58,027
WALKER, ROBERT M; *RESEARCH PROGRAM FOR THERMOLUMINESCENCE DATING IN ARCHAEOLOGY (BNS-7825685 A01)*; 12 MONTHS $37,481
SUSSMAN, ROBERT W; *INTRASPECIFIC VARIATION IN DIET, FORAGING BEHAVIOR AND NUTRITION OF MACACA FASCICULARIS (BNS-7916561 A01)*; $1,495
SUSSMAN, ROBERT W; *INTERSPECIFIC VARIATION IN DIET, FORAGING BEHAVIOR AND NUTRITION OF MACACA FASCICULARIS (BNS-7916561 A02)*; $3,000

BROWMAN, DAVID L; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7918552)*; 12 MONTHS $6,160

MOLNAR, STEPHEN; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8005974)*; 16 MONTHS $3,211

CANFIELD, ROBERT L; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8007129)*; 18 MONTHS $6,927

NEBRASKA

CREIGHTON UNIVERSITY-SCHOOL OF MEDICINE

NEARY, TIMOTHY J; *ANTERIOR THALAMIC NUCLEUS CONNECTIONS IN THE ANURAN (BNS-7924699)*; 36 MONTHS $110,000

FATHER FLANAGAN'S BOYS HOME

MORLEY, BARBARA J; *HISTOCHEMICAL IDENTIFICATION OF NICOTINIC ACETYLCHOLINE RECEPTORS IN THE CNS (BNS-8006643)*; 15 MONTHS $68,083

WEBER, DANIEL L, AND JESTEADT, WALT; *PSYCHOPHYSICAL STUDIES OF SUPPRESSION AND FORWARD MASKING (BNS-8013065)*; 12 MONTHS $37,767

UNIVERSITY OF NEBRASKA AT LINCOLN

BLEED, PETER, AND HURLEY, WILLIAM; *SOCIAL DYNAMICS AND SUBSISTENCE IN AN EARLY COMMUNITY (BNS-7825777 A01)*; 12 MONTHS $26,559

UNIVERSITY OF NEBRASKA MEDICAL CENTER AT OMAHA

MANN, MICHAEL D; *CHANGES IN EXCITABILITY OF PYRAMIDAL TRACT AXONS (BNS-7614743 A02)*; 24 MONTHS $80,000

MURRIN, LEONARD C; *DEVELOPMENT OF THE MAMMALIAN CENTRAL NERVOUS SYSTEM (BNS-7921105)*; 12 MONTHS $62,652

NEVADA

UNIVERSITY OF NEVADA, RENO

GARDNER, R ALLEN, AND GARDNER, BEATRICE T; *PSYCHOBIOLOGY OF TWO-WAY COMMUNICATION (BNS-7913832 A01)*; 12 MONTHS $99,999

DOUGLASS, WILLIAM A; *IMMIGRANT ADAPTATION TO A HOST SOCIETY (BNS-7918342)*; 24 MONTHS $62,390

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

NEVIN, JOHN A; *REINFORCEMENT OF ATTENDING AND REMEMBERING (BNS-7924082)*; 12 MONTHS $47,652

NEW JERSEY

COLLEGE OF MEDICINE & DENTISTRY OF NEW JERSEY-RUTGERS MEDICAL SCHOOL

RHOADES, ROBERT W; *CALLOSAL CONNECTIONS IN HAMSTERS (BNS-8004601)*; 24 MONTHS $58,398

NEW JERSEY DEPARTMENT OF EDUCATION

WILLIAMS, LORRAINE E, AND PARRIS, DAVID C; *CONSERVATION AND CATALOGING OF THE ABBOTT FARM NATIONAL HISTORIC LANDMARK FAUNAL COLLECTION (BNS-8005265)*; 6 MONTHS $6,990

PRINCETON UNIVERSITY

JONES, EDWARD E; *ATTRIBUTION PROCESSES AND SOCIAL INTERACTION (BNS-7707290 A03)*; 12 MONTHS $55,040

GOULD, JAMES L; *ETHOLOGY OF APIS MELLIFERA (BNS-7824754 A01)*; 12 MONTHS $59,783

GLUCKSBERG, SAM; *AMBIGUITY AND METAPHOR IN SPEECH AND LANGUAGE (BNS-7827043 A01*)*; 12 MONTHS $39,278

GROSS, CHARLES G; *FUNCTIONS OF EXTRASTRIATE VISUAL CORTEX IN MACAQUE (BNS-7905589 A01)*; 12 MONTHS $65,692

FERNANDEZ, JAMES W; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7922229)*; 15 MONTHS $4,605

HOOGLAND, JOHN L; *SOCIOBIOLOGY OF AN ENDANGERED SPECIES (BNS-7924093)*; 12 MONTHS $11,700

KINCHLA, RONALD A; *SELECTIVE VISUAL ORGANIZATION (BNS-8004649)*; 24 MONTHS $53,721

GELPERIN, ALAN; *NEUROETHOLOGY OF LEARNING (BNS-8005822)*; 12 MONTHS $60,000

GEERTZ, HILDRED; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8016217)*; 24 MONTHS $7,480

RUTGERS UNIVERSITY-BUSCH CAMPUS

SHAW, MARILYN L; *SELECTIVE INFORMATION PROCESSING MECHANISMS (BNS-7924885)*; 12 MONTHS $59,472

RUTGERS UNIVERSITY-LIVINGSTON COLLEGE

BURGER, JOANNA; *DOCTORAL DISSERTATION RESEARCH IN PSYCHOBIOLOGY (BNS-8007582)*; 24 MONTHS $3,458

NEW MEXICO

SCHOOL OF AMERICAN RESEARCH

SCHWARTZ, DOUGLAS W; *CONSERVATION OF ANTHROPOLOGICAL MATERIALS (BNS-8005742)*; 6 MONTHS $18,040

SCHWARTZ, DOUGLAS W; *PUBLICATION ASSISTANCE FOR: POPULATION GROWTH AND CULTURE CHANGE IN A RIO GRANDE PUEBLO (BNS-8014300)*; 24 MONTHS $47,256

UNIVERSITY OF NEW MEXICO

YOUNG, RODNEY W; *SYMPOSIUM -- NEUROLINGUISTICS AND BILINGUALISM: THE QUESTION OF INDIVIDUAL DIFFERENCES, JULY 17 - 19, 1980, ALBUQUERQUE, NEW MEXICO (BNS-7923099)*; 6 MONTHS $6,600

BILLS, GARLAND D; *SYMPOSIUM ON UTO-AZTECAN HISTORICAL LINGUISTICS; JUNE, 1980; ALBUQUERQUE, NEW MEXICO (BNS-7923190)*; 12 MONTHS $13,646

BRODY, J J; *POTTERY CONSERVATION SPECIAL PROGRAM (BNS-8006352)*; 12 MONTHS $23,386

MINNIS, PAUL E; *PLANT USE IN THE SOUTHWESTERN UNITED STATES (BNS-8008665)*; 12 MONTHS $4,562

NEW YORK

ALBANY MEDICAL COLLEGE

HUSTON, JAMES S; *STRUCTURAL BIOCHEMISTRY OF BRAIN-SPECIFIC GLIAL FIBRILLARY ACIDIC PROTEIN (BNS-8019967)*; 12 MONTHS $46,385

AMERICAN MUSEUM OF NATURAL HISTORY

MORRIS, CRAIG; *INCA URBANISM: ANALYSIS OF DATA FROM HUANUCO PAMPA (BNS-7825109 A01)*; 12 MONTHS $51,266

SCHILDKROUT, ENID; *ECONOMIC ROLES OF CHILDREN IN WEST AFRICA (BNS-8014089)*; 12 MONTHS $35,588

BROOKLYN COLLEGE

BANKOFF, H ARTHUR, AND WINTER, FREDERICK; *LATER PREHISTORIC ECOLOGY AND CULTURE CHANGE (BNS-7925602)*; 12 MONTHS $50,586

CITY COLLEGE

SIMON, CAROL A; *DOCTORAL DISSERTATION RESEARCH IN SENSORY PHYSIOLOGY AND PERCEPTION (BNS-8005253)*; 24 MONTHS $6,193

COLD SPRING HARBOR LAB OF QUANTITATIVE BIOLOGY

ZIPSER, BIRGIT; *BEHAVIORALLY DEDICATED NEURAL NETWORKS (BNS-7824672 A01)*; 12 MONTHS $29,080

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

MULLER-SCHWARZE, DIETLAN, AND SILVERSTEIN, ROBERT M; *STIMULI THAT RELEASE THE FLEHMEN RESPONSE (BNS-7821331 A01*)*; 12 MONTHS $25,000

COLUMBIA UNIVERSITY-COLLEGE OF PHYSICIANS AND SURGEONS

TORAN ALLERAND , C D; *HORMONAL DETERMINANTS OF CENTRAL NERVOUS SYSTEM DEVELOPMENT (BNS-7709359 A01)*; 24 MONTHS $103,856

CURRIE, JULIA R; *CELL SURFACES IN NEURAL DIFFERENTIATION (BNS-7815910 A02)*; 12 MONTHS $57,997

ROTHMAN, TAUBE P, AND GERSHON, MICHAEL D; *NEURONAL DIVERSITY IN THE PNS: DEVELOPMENT OF THE ENTERIC NERVOUS SYSTEM IN NORMAL AND AGANGLIONIC MICE (BNS-7911640 A01)*; 12 MONTHS $43,200

SCHWARTZ, JAMES H; *MECHANISM OF AXONAL TRANSPORT (BNS-7923111)*; 12 MONTHS $62,000

DREYFUS, CHERYL F, AND GERSHON, MICHAEL D; *SPECIFICITY IN THE INNERVATION OF THE PARAVENTRICULAR NUCLEUS BY THE LOCUS CERULEUS IN VITRO (BNS-7924820)*; 12 MONTHS $49,645

COLUMBIA UNIVERSITY

HOLLOWAY, RALPH L; *THE EVOLUTION OF THE HUMAN BRAIN: A MORPHOMETRIC ANALYSIS (BNS-7911235 A01)*; $8,000

HOLLOWAY, RALPH L; *THE EVOLUTION OF THE HUMAN BRAIN: A MORPHOMETRIC ANALYSIS (BNS-7911235 A02)*; 12 MONTHS $21,431

PFENNINGER, KARL H; *INTRACELLULAR EVENTS DURING NEURONAL MEMBRANE GROWTH (BNS-7914071 A01)*; 12 MONTHS $56,493

ROITBLAT, HERBERT L; *SHORT-TERM MEMORY CODING (BNS-7914212)*; 24 MONTHS $78,500

DOSHER, BARBARA A; *RETRIEVAL OF INFORMATION FROM HUMAN MEMORY (BNS-7920305)*; 12 MONTHS $46,769

COHEN, MYRON L; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7924405)*; 24 MONTHS $4,015

MULLINGS, LEITH; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8001992)*; 24 MONTHS $5,075

CORNELL UNIVERSITY

JOHNSTON, ROBERT E; *SENSORY INFLUENCES ON REPRODUCTIVE BEHAVIOR IN ANIMALS (BNS-7822623 A01*)*; 12 MONTHS $28,477

BEM, SANDRA L; *COGNITIVE PROCESSES MEDIATING TRADITIONAL AND NONTRADITIONAL GENDER ROLES (BNS-7822637 A01)*; 12 MONTHS $36,642

LUST, BARBARA; *CONSTRAINT ON ANAPHORA IN FIRST LANGUAGE ACQUISITION: A STUDY OF 6 LANGUAGES (BNS-7825115 A01*)*; 12 MONTHS $51,693

KUNIHOLM, PETER I; *TREE-RING CHRONOLOGIES FOR THE AEGEAN AND ADJACENT AREAS: A TOOL FOR ARCHAEOLOGICAL DATING AND FOR THE STUDY OF CLIMATE CHANGE (BNS-7906915 A01)*; 12 MONTHS $19,066

CAMHI, JEFFREY M; *PLASTICITY IN INVERTEBRATE NERVOUS SYSTEMS (BNS-7909663 A01)*; 12 MONTHS $53,822

FINLAY, BARBARA L; *CONTROL OF CONVERGENCE IN THE MAMMALIAN CENTRAL NERVOUS SYSTEM (BNS-7919491)*; 12 MONTHS $42,568

JOHNSTON, ROBERT E; *INFLUENCE OF SOCIAL CUES ON REPRODUCTIVE PHYSIOLOGY (BNS-8005546)*; 12 MONTHS $20,172

HALPERN, BRUCE P; *A TEMPORAL ANALYSIS OF HUMAN TASTE JUDGEMENTS (BNS-8014148)*; 12 MONTHS $48,000

KENNEDY, KENNETH A; *MESOLITHIC SKELETAL BIOLOGY (BNS-8014293*)*; 12 MONTHS $5,567

DYSON-HUDSON, V RADA; *ENVIRONMENTAL MAPS AND MODELS IN A PASTORAL SOCIETY (BNS-8017800)*; 12 MONTHS $80,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY MEDICAL CENTER

COUGHLIN, MICHAEL D; *NERVE GROWTH IN CULTURE (BNS-7904296 A01)*; 12 MONTHS $59,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

KEIL, FRANK C; *SEMANTIC AND CONCEPTUAL DEVELOPMENT (BNS-7806900 A02)*; 12 MONTHS $35,753

HAAS, JERE D; *ADAPTATION TO ANEMIA AND HIGH ALTITUDE (BNS-7906270 A01)*; 12 MONTHS $78,913

KRAUT, ROBERT E; *NONVERBAL BEHAVIOR IN SOCIAL INTERACTION (BNS-7907963 A01)*; $748

KRAUT, ROBERT E; *NONVERBAL BEHAVIOR IN SOCIAL INTERACTION (BNS-7907963 A02)*; 12 MONTHS $27,449

EMLEN, STEPHEN T; *FIELD STUDY OF COOPERATIVE BEHAVIOR (BNS-7924436*)*; 12 MONTHS $30,889

CORNELL UNIVERSITY-CORNELL UNIVERSITY - STATE

HAUSFATER, GLENN; *LONGITUDINAL STUDIES OF PRIMATE SOCIOBIOLOGY (BNS-7809178 A01)*; 6 MONTHS $3,057

KEETON, WILLIAM T, AND EMLEN, STEPHEN T; *AVIAN ORIENTATION (BNS-7813016 A02)*; 12 MONTHS $159,050

ADLER, KRAIG; *CUES, RECEPTORS AND MECHANISMS FOR ORIENTATION (BNS-7924525*)*; 24 MONTHS $85,000

HAUSFATER, GLENN; *LONGITUDINAL STUDIES OF PRIMATE SOCIETIES (BNS-8007893*)*; 12 MONTHS $25,000

CORNELL UNIVERSITY - STATE-AGRICULTURAL EXPERIMENT STATION

ROELOFS, WENDELL L; *BEHAVIORAL THRESHOLDS IN MOTH PHEROMONE PERCEPTION (BNS-7809104 A02)*; 12 MONTHS $27,986

CUNY GRADUATE SCHOOL AND UNIVERSITY CENTER

SCHNEIDER, JANE; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8016406)*; 18 MONTHS $5,424

GROSS, DANIEL R; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8016641)*; 12 MONTHS $6,242

DOWNSTATE MEDICAL CENTER AT BROOKLYN

WAKADE, ARUN R; *HYPERAMMONEMIA AND SYMPATHETIC NEUROSECRETION (BNS-7923019)*; 12 MONTHS $45,000

SCALIA, FRANK; *REGENERATION OF OPTIC NERVE FIBERS IN THE VISUAL SYSTEM (BNS-7923788)*; 12 MONTHS $71,057

FARB, DAVID H; *ACTION OF 1,4-BENZODIAZEPINES IN SPINAL CORD CELL CULTURES (BNS-8004871)*; 24 MONTHS $83,000

HUNTER COLLEGE

CHASE, SHEILA; *LIMITATIONS ON THE ACCURACY OF ABSOLUTE IDENTIFICATIONS (BNS-7924170)*; 24 MONTHS $89,820

MCGOVERN, THOMAS H; *GREENLAND LANDSMUSEUM ARCHAEOLOGICAL SURVEY (BNS-8004483)*; 14 MONTHS $2,100

TOPOFF, HOWARD; *COMMUNICATION AND NOMADIC BEHAVIOR IN THE ARMY ANT (BNS-8004565)*; 24 MONTHS $49,965

HARDING, CHERYL F; *IPA MOBILITY ASSIGNMENT (CHERYL FAYE HARDING) (BNS-8021676)*; 13 MONTHS $47,246

LEHMAN COLLEGE

DELSON, ERIC; *AFRICAN PLIO-PLEISTOCENE CERCOPITHECID SYSTEMATICS AND EARLY HOMINID BIOCHRONOLOGY (BNS-7915091 A01)*; 12 MONTHS $52,691

MOUNT SINAI SCH OF MED CITY UNIV OF NEW YORK

AZMITIA, EFRAIN C; *INDUCED 5-HT AXONAL SPROUTING IN ADULT HIPPOCAMPUS (BNS-7906474 A01)*; 12 MONTHS $54,058

MEIBACH, RICHARD C; *ANATOMICAL ORGANIZATION OF THE AMYGDALOID COMPLEX (BNS-7921286)*; 24 MONTHS $86,000

MUSICAL OBSERVATIONS INC

ZUKOFSKY, PAUL; *LIMITS, CORRELATIONS, AND CONSTRAINTS ON MOTOR SKILLS (BNS-7824727 A01)*; 12 MONTHS $44,420

NEW YORK UNIVERSITY-MEDICAL CENTER

MARGOLIS, RICHARD U; *COMPLEX CARBOHYDRATES OF NERVOUS TISSUE STORAGE ORGANELLES (BNS-7915410 A01)*; 12 MONTHS $43,422

TRENKNER, EKKHART; *COMBINED BIOCHEMICAL AND NEUROLOGICAL MUTATIONS OF THE NERVOUS SYSTEM (BNS-7922673)*; 24 MONTHS $100,000

NEW YORK UNIVERSITY

MATTHEWS, T JAMES; *MOTIVATIONAL BASIS OF STEREOTYPIC BEHAVIOR (BNS-7719037 A01)*; 12 MONTHS $1,800

MILLER, FREDERICK D; *COLLABORATIVE RESEARCH ON A PROCESS MODEL OF THE STAGES OF CAUSAL ATTRIBUTION (BNS-7922230)*; 24 MONTHS $30,558

BOAZ, NOEL T; *PALEOANTHROPOLOGICAL INVESTIGATION OF THE UPPER MIOCENE SITE OF SAHABI, LIBYA (BNS-7923458)*; 12 MONTHS $52,706

FALMAGNE, JEAN-CLAU; *PROBABILISTIC MEASUREMENT THEORETIC MODELS OF INFORMATION PROCESSING (IST-7924526*)*; 31 MONTHS $50,000

RESEARCH FOUNDATION FOR MENTAL HYGIENE INC

GIBBON, JOHN; *TIME AND CONTINGENCY IN ASSOCIATION LEARNING (BNS-7823616 A01)*; 12 MONTHS $40,716

BAILEY, CRAIG H; *CELLULAR APPROACH TO NEUROBIOLOGY OF AGING (BNS-7824476 A01)*; 12 MONTHS $66,230

STONE, ARTHUR A, AND NEALE, JOHN M; *DEVELOPMENT OF A METHODOLOGY TO MEASURE THE IMPACT OF DAILY LIFE EVENTS (BNS-7923715)*; 12 MONTHS $62,388

TAMIR, HADASSAH; *BIOGENIC AMINE TRANSFER AND STORAGE MECHANISMS (BNS-8009335)*; 12 MONTHS $39,754

ROCKEFELLER UNIVERSITY

WINSON, JONATHAN; *HIPPOCAMPAL NEURAL TRANSMISSION AND BEHAVIOR (BNS-7708924 A02)*; 12 MONTHS $40,541

MARLER, PETER R; *COMPARATIVE STUDIES OF SIGNAL STRUCTURE AND FUNCTION (BNS-7716894 A03)*; 12 MONTHS $53,526

MARLER, PETER R; *COMPARATIVE STUDIES OF SIGNAL STRUCTURE AND FUNCTION (BNS-7716894 A04)*; $7,193

FRANK, MARION, AND PFAFFMANN, CARL; *NEURAL AND BEHAVIORAL STUDIES OF TASTE QUALITY CODING AND PALATABILITY (BNS-7816533 A02)*; 12 MONTHS $81,537

PATON, JOHN A, AND NOTTEBOHM, FERNANDO; *NEUROPHYSIOLOGY OF VOCAL CONTROL (BNS-7924602)*; 12 MONTHS $48,912

KALDERON, NURIT; *TISSUE REMODELLING AND CELLULAR INTERACTIONS DURING PERIPHERAL NERVOUS SYSTEM FORMATION AND MUSCLE INNERVATION (BNS-7924630)*; 12 MONTHS $40,000

GRIFFIN, DONALD R; *ACOUSTIC ORIENTATION (BNS-8004544)*; 26 MONTHS $90,000

NORGREN, RALPH E; *GUSTATORY AND VISCERAL AFFERENT NEURAL ORGANIZATION (BNS-8006444)*; 12 MONTHS $63,000

SEYFARTH, ROBERT M, AND SEYFARTH, DOROTHY C; *BEHAVIOR AND COMMUNICATION IN FREE-RANGING PRIMATES (BNS-8008946)*; 24 MONTHS $66,455

WINSON, JONATHAN; *HIPPOCAMPAL NEURAL TRANSMISSION AND BEHAVIOR (BNS-8013034)*; 24 MONTHS $99,745

SOCIAL SCIENCE RESEARCH COUNCIL

PREWITT, KENNETH, AND GEPHART, MARTHA A; *CONFERENCE - THERAPY AND SOCIETY IN AFRICA: CAMBRIDGE UNIVERSITY, JUNE 23-26, 1980 (BNS-8004418)*; 9 MONTHS $32,746

STATE UNIVERSITY AT ALBANY

JACKLET, JON W; *MECHANISMS OF CIRCADIAN RHYTHMS IN NEURONAL PACEMAKERS (BNS-7811154 A01)*; 24 MONTHS $100,000

MURPHEY, RODNEY K; *DEVELOPMENT AND DEPRIVATION OF IDENTIFIED NEURONS (BNS-7824939 A01)*; 12 MONTHS $51,101

ABLE, KENNETH P; *FIELD-EXPERIMENTAL STUDIES OF MIGRATORY ORIENTATION AND NAVIGATION (BNS-7923711)*; 12 MONTHS $63,687

SUSMAN, RANDALL L; *POSITIONAL BEHAVIOR AND FEEDING ECOLOGY OF PAN PANISCUS (BNS-7924162)*; 12 MONTHS $63,110

SVARE, BRUCE B; *HORMONAL DETERMINANTS OF MATERNAL AGGRESSIVE BEHAVIOR (BNS-8005846)*; 24 MONTHS $41,969

STATE UNIVERSITY AT BINGHAMTON

WILCOX, R STIMSON; *SURFACE WAVE COMMUNICATION (BNS-7724708 A01)*; 18 MONTHS $30,000

SPEAR, NORMAN E; *ONTOGENY, FORGETTING, AND RETENTION (BNS-7802360 A02)*; 12 MONTHS $50,000

ISBELL, WILLIAM H; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7920527)*; 12 MONTHS $5,300

REDMAN, CHARLES L, AND BOONE, JAMES L; *URBANISM AND STATE SOCIETY IN NORTH AFRICA (BNS-8002289)*; 12 MONTHS $70,944

PASTORE, RICHARD E; *PSYCHOPHYSICS FOR SPEECH PERCEPTION (BNS-8003704*)*; 12 MONTHS $21,973

RIGHTMIRE, G P; *PATTERNS IN THE DEVELOPMENT OF EARLY HUMANS (BNS-8004852)*; 24 MONTHS $50,998

STATE UNIVERSITY AT BUFFALO

WEISSTEIN, NAOMI, AND KALICH, MELVYN E; *ORGANIZATION OF COMPLEX VISUAL PERCEPTION (BNS-7602059 A02)*; 12 MONTHS $46,300

KOENIG, EDWARD; *LOCAL PROTEIN SYNTHESIS IN AXONAL GROWTH PROCESSES (BNS-7724886 A01)*; 24 MONTHS $106,000

MILISAUSKAS, SARUNAS; *NEOLITHIC SITES IN POLAND (BNS-7919890)*; 24 MONTHS $37,181

PRUITT, DEAN G; *FACTORS AFFECTING INTEGRATIVE BARGAINING (BNS-8014902)*; 12 MONTHS $53,170

STATE UNIVERSITY AT STONY BROOK

SCHMIDT, JAKOB; *SNAKE TOXINS AS NEURONAL PROBES (BNS-7802786 A01)*; 12 MONTHS $30,000

RACHLIN, HOWARD C; *REINFORCEMENT AND PUNISHMENT IN A CLOSED SYSTEM (BNS-7809085 A01*)*; 12 MONTHS $28,860

WALCOTT, CHARLES; *EXPERIMENTAL ANALYSIS OF ORIENTATION (BNS-7810518 A02)*; 12 MONTHS $30,874

JOHNSON, MARCIA K, AND RAYE, CAROL L; *REALITY-MONITORING AND MEMORY FOR THOUGHT (BNS-7813054 A01)*; 12 MONTHS $34,440

LEVINE, MARVIN; *SPATIAL PROBLEM SOLVING (BNS-7824716 A01)*; 12 MONTHS $41,622

BAARS, BERNARD J; *EXPERIMENTAL ANALYSIS OF SPEECH PRODUCTION (BNS-7906024 A01)*; 12 MONTHS $24,226

COHEN, DAVID H; *NEURAL MECHANISMS OF HEART RATE CONDITIONING (BNS-7919166)*; 12 MONTHS $77,500

STERN, JACK T; *PRIMATE LOCOMOTION (BNS-7924070)*; 12 MONTHS $68,756

FLEAGLE, JOHN G; *SKELETAL ANATOMY AND LOCOMOTOR BEHAVIOR OF EARLY ANTHROPOIDS (BNS-7924149)*; 24 MONTHS $55,351

WEIGAND, PHIL C, AND VEAKIS, EMIL; *NEUTRON ACTIVATION ANALYSIS OF ARCHAEOLOGICAL TURQUOISE (BNS-8014269)*; 12 MONTHS $71,262

COHEN, DAVID H; *CELLULAR STUDIES OF LEARNING IN A VERTEBRATE MODEL SYSTEM (BNS-8016396)*; 12 MONTHS $89,222

ROSENBERGER, ALFRED L; *DEVELOPMENT OF PRIMATE SPECIES (BNS-8016634)*; 24 MONTHS $20,368

SYRACUSE UNIVERSITY

BARLOW, ROBERT B; *EFFERENT CONTROL OF VISUAL SENSITIVITY (BNS-7719436 A02)*; 12 MONTHS $26,452

BARLOW, ROBERT B; *EFFERENT CONTROL OF VISUAL SENSITIVITY (BNS-7719436 A03)*; $2,000

CAMPBELL, DONALD T; *THEORY OF SOCIAL EXPERIMENTATION, MEASUREMENT AND PROGRAM EVALUATION (BNS-7925577*)*; 12 MONTHS $42,641

COCHRANE, D G; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8008666)*; 15 MONTHS $6,035

TEACHERS COLLEGE

DEUTSCH, MORTON; *SOCIAL PSYCHOLOGICAL STUDIES OF DIFFERENT SYSTEMS OF DISTRIBUTIVE JUSTICE (BNS-7716017 A03)*; 12 MONTHS $65,014

BLOOM, LOIS; *STRUCTURE AND FUNCTION IN LANGUAGE DEVELOPMENT (BNS-7907335 A02)*; 12 MONTHS $78,654

COMITAS, LAMBROS E; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7915363)*; 12 MONTHS $4,946

COMITAS, LAMBROS E; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8017228)*; 12 MONTHS $2,510

UNIVERSITY OF ROCHESTER-SCHOOL OF MEDICINE AND DENTISTRY

DOTY, ROBERT W; *INTERHEMISPHERIC MNEMONIC TRANSFER (BNS-7906819 A01)*; 12 MONTHS $75,000

JOYNT, ROBERT J; *NEUROCHEMISTRY MULTIUSER LABORATORY (BNS-7924767)*; 12 MONTHS $70,000

UNIVERSITY OF ROCHESTER

GOVE, HARRY E, AND PURSER, KENNETH H; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ADDITIONS TO THE TANDEM ACCELERATOR AT THE UNIVERSITY OF ROCHESTER FOR ULTRA-SENSITIVE PARTICLE IDENTIFICATION (PHY-7822698 A01*)*; 12 MONTHS $35,000

UPSTATE MEDICAL CENTER AT SYRACUSE

DURKOVIC, RUSSELL G; *NEURAL MECHANISMS OF CLASSICALLY CONDITIONED REFLEX FACILITATION (BNS-7723845 A02)*; 12 MONTHS $33,000

DURKOVIC, RUSSELL G; *NEURAL MECHANISMS OF CLASSICALLY CONDITIONED REFLEX FACILITATION (BNS-7723845 A03)*; $12,445

HOREL, JAMES A; *BEHAVIORAL STUDY OF TEMPORAL LOBE CONNECTIONS (BNS-7807683 A02)*; 12 MONTHS $44,996

YESHIVA UNIVERSITY-ALBERT EINSTEIN COLLEGE OF MEDICINE

ZUKIN, R SUZANNE; *SENSORY RECEPTOR INTERACTIONS (BNS-7817774 A01)*; 12 MONTHS $63,648

SCHARRER, BERTA; *NEUROENDOCRINE STUDIES IN INSECTS (BNS-7908854 A01)*; 12 MONTHS $64,426

HALL, LINDA M; *ACETYLCHOLINE RECEPTORS IN DROSOPHILA MELANOGASTER (BNS-7922435)*; 12 MONTHS $53,795

RUFF, HOLLY; *THE VISUAL RECOGNITION OF MOTIONS AND OF MOVING OBJECTS (BNS-8013064)*; 15 MONTHS $61,824

YESHIVA UNIVERSITY

FISHMAN, JOSHUA A; *MINORITY LANGUAGES IN THE U. S. (BNS-7906055*)*; 12 MONTHS $60,000

NORTH CAROLINA

DUKE UNIVERSITY

LOCKHEAD, GREGORY R; *SEQUENTIAL EFFECTS IN JUDGMENT (BNS-7827004 A01)*; 12 MONTHS $41,000

STADDON, JOHN E R; *BEHAVIORAL COMPETITION: STATICS AND DYNAMICS (BNS-7915114)*; 12 MONTHS $60,000

DIAMOND, IRVING T; *LAMINAR ORGANIZATION OF CORTEX AND LATERAL GENICULATE BODY (BNS-7915780 A01)*; 12 MONTHS $45,501

LIVINGSTONE, DANIEL A; *DEEP DRILLING IN AFRICAN LAKES (BNS-7926762)*; 12 MONTHS $217,000

FOX, RICHARD G; *COLONIAL POLITICAL ECONOMY AND AGRARIAN DEVELOPMENT (BNS-8007726*)*; 15 MONTHS $53,845

DUKE UNIVERSITY-MARINE LABORATORY

COSTLOW, JOHN D; *WORKSHOP ON NSF FACILITIES SUPPORT FOR THE EIGHTIES IN MARINE BIOLOGY, BEAUFORT, N.C., MAY 17-18, 1980 (PCM-8017003*)*; 6 MONTHS $3,991

DUKE UNIVERSITY-SCHOOL OF MEDICINE

CASSEDAY, JOHN H; *CENTRAL AUDITORY PATHWAYS (BNS-8013774)*; 12 MONTHS $50,719

SIMONS, ELWYN L, AND KAY, RICHARD F; *ANTHROPOLOGICAL AND PALEONTOLOGICAL WORK INTO FOSSIL ANTHROPOID SITES (BNS-8016306)*; 12 MONTHS $108,492

HYLANDER, WILLIAM L; *AN ANALYSIS OF IN VIVO MASTICATORY FORCES (BNS-8016746)*; 24 MONTHS $52,998

NORTH CAROLINA FDN FOR MENTAL HEALTH RES INC

HALL, WARREN G; *FEEDING: DEVELOPMENTAL STUDY OF A MOTIVATIONAL SYSTEM (BNS-7723051 A02)*; 12 MONTHS $26,519

OPPENHEIM, RONALD W; *NEURONAL CELL DEATH IN THE CHICK EMBRYO (BNS-7924088)*; 12 MONTHS $47,451

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

WHITSETT, J M; *BEHAVIORAL ASPECTS OF MATURATION (BNS-7807661 A02)*; 12 MONTHS $29,635

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL-SCHOOL OF MEDICINE

MYERS, R D; *CHEMICAL FACTORS IN THE BRAIN INVOLVED IN INGESTIVE BEHAVIOR (BNS-7824491 A01)*; 12 MONTHS $65,000

OXFORD, G S; *SODIUM CHANNEL GATING MECHANISMS: A MOLECULAR STUDY (BNS-7921505)*; 12 MONTHS $60,217

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

EVENS, TERENCE M; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7817486 A01)*; $3,511

ALLEN, GEORGE D; *DEVELOPMENT OF PHONOLOGICAL RHYTHM IN CHILDREN'S SPEECH (BNS-7824775 A01)*; 12 MONTHS $27,980

INSKO, CHESTER A, AND THIBAUT, JOHN; *DEVELOPMENT OF SOCIAL ORGANIZATION AND THE INSTITUTIONALIZATION OF LEADERSHIP (BNS-8002009)*; 24 MONTHS $85,864

WILEY, R HAVEN; *DOCTORAL DISSERTATION RESEARCH IN PSYCHOBIOLOGY (BNS-8019053)*; 24 MONTHS $6,980

WAKE FOREST UNIVERSITY-BOWMAN GRAY SCHOOL OF MEDICINE

DEADWYLER, SAMUEL A; *DEVELOPMENT OF NEUROBEHAVIORAL MODEL OF HIPPOCAMPAL FUNCTION (BNS-7809787 A02)*; 12 MONTHS $34,992

HENKEL, CRAIG K; *AUDITORY-MOTOR REFLEX PATHWAYS IN THE BRAINSTEM (BNS-7918832)*; 24 MONTHS $69,912

OHIO

CASE WESTERN RESERVE UNIVERSITY

RITZMANN, ROY E, AND WESTIN, JOANNE; *CONTROL OF MOTOR PATHWAYS IN INSECTS (BNS-7806192 A02)*; 12 MONTHS $46,000

CLEVELAND MUSEUM OF NATURAL HISTORY

JOHANSON, DONALD C; *COLLABORATIVE RESEARCH ON PALEOBIOLOGY OF PLIOCENE HOMINIDAE FROM HADAR, ETHIOPIA (BNS-7825329 A01)*; 12 MONTHS $36,776

JOHANSON, DONALD C; *COLLABORATIVE RESEARCH ON THE PALAEOANTHROPOLOGY OF THE HADAR REGION AND THE MIDDLE AWASH VALLEY OF ETHIOPIA (BNS-8017724)*; 12 MONTHS $84,097

KENT STATE UNIVERSITY

LOVEJOY, C O; *COLLABORATIVE RESEARCH ON PALEOBIOLOGY OF PLIOCENE HOMINIDAE FROM HADAR, ETHIOPIA (BNS-7912514 A02)*; 12 MONTHS $25,344

NORTHEASTERN OHIO UNIVS COLLEGE OF MEDICINE

TEYLER, TIMOTHY J; *ACQUISITION OF EQUIPMENT FOR HIPPOCAMPAL PLASTICITY STUDIES (BNS-7920940)*; 12 MONTHS $9,100

OBERLIN COLLEGE

HENDERSON, NORMAN D; *GENETIC INFLUENCES ON EARLY BEHAVIOR IN MUSCULUS (BNS-7815366 A02)*; 12 MONTHS $73,266

OHIO STATE UNIVERSITY

LATANE, BIBB; *THEORY OF SOCIAL IMPACT (BNS-7619629 A04)*; 12 MONTHS $67,400

JONES, MARI R; *SERIAL RELATIONS: RESEARCH AND THEORY ON DYNAMIC CONTEXT EFFECTS (BNS-7806297 A02)*; 12 MONTHS $35,767

SUMNER, WILLIAM M; *ANALYSIS OF ARCHAEOLOGICAL MATERIAL FROM TAL-E-MALYAN (BNS-7905860 A01)*; 12 MONTHS $28,339

GAUNT, ABBOT S, AND GAUNT, SANDRA L; *COMPARATIVE SYRINGEAL FUNCTION (DEB-7911774*)*; 36 MONTHS $30,000

DOWTY, DAVID R; *PUBLICATION: PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE ON AUSTROASIATIC LINGUISTICS (BNS-7926647)*; 12 MONTHS $2,780

POIRIER, FRANK E; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8007882)*; 9 MONTHS $4,955

MARTIN, GEORGE F; *THE DEVELOPMENT OF BRAINSTEM-SPINAL SYSTEMS RELATED TO AUTONOMIC CONTROL, PAIN MODULATION AND SOMATIC MOTOR ACTIVITY (BNS-8008675)*; 12 MONTHS $60,000

POIRIER, FRANK E; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8016637)*; 16 MONTHS $3,789

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

MOCK, DOUGLAS W; *EVOLUTIONARY ANALYSIS OF A SIMPLE SOCIAL UNIT (BNS-7906059 A01)*; 12 MONTHS $27,682

MOORE, JOHN H; *SOCIAL STRUCTURE OF THE SOUTHERN CHEYENNES (BNS-8014119)*; 12 MONTHS $69,852

UNIVERSITY OF TULSA

HENRY, DONALD O; *ADAPTIVE STRATEGIES IN SOUTHERN JORDAN (BNS-7906281 A01)*; 12 MONTHS $42,961

OREGON

GOOD SAMARITAN HOSPITAL AND MEDICAL CENTER

BELL, CURTIS C; *CENTRAL PHYSIOLOGY AND ANATOMY OF THE MORMYRID ELECTROSENSORY SYSTEM (BNS-7905096 A01)*; 12 MONTHS $68,124

UNIVERSITY OF OREGON - EUGENE

KEANA, JOHN F; *SYNTHESIS OF MOLECULES LIKELY TO INTERACT STRONGLY WITH NERVE (BNS-7716952 A02)*; 12 MONTHS $30,000

LICKEY, MARVIN E; *PHOTORECEPTORS AND CIRCADIAN PACEMAKERS IN ACTIVITY RHYTHMS (BNS-7726351 A02)*; 12 MONTHS $53,000

WICKELGREN, WAYNE A; *CODING AND DYNAMICS OF HUMAN MEMORY (BNS-7906878 A02)*; 12 MONTHS $58,001

HINTZMAN, DOUGLAS L; *REPETITION IN EPISODIC AND GENERIC MEMORY (BNS-7824987 A01)*; 12 MONTHS $39,252

MITTENTHAL, JAY E; *NERVE-MUSCLE INTERACTION IN CRUSTACEAN REGENERATION (BNS-7920260 A01)*; 12 MONTHS $40,000

COHEN, SHELDON; *MECHANISMS INVOLVED IN THE BEHAVIORAL AFTEREFFECTS OF STRESS (BNS-7923453)*; 12 MONTHS $49,585

POSNER, MICHAEL I; *ORIENTING IN VISUAL AND SEMANTIC SPACE (BNS-7923527*)*; 12 MONTHS $55,792

HOYLE, GRAHAM; *NEURAL MECHANISMS UNDERLYING BEHAVIOR (BNS-7923786)*; 12 MONTHS $60,000

AIKENS, C M; *LONG-TERM HUMAN ADAPTATION IN THE STEENS MOUNTAIN REGION, SOUTHEASTERN OREGON (BNS-9006277)*; 14 MONTHS $98,702

SIMMONS, JAMES A; *PROCESSING OF ECHOES IN BAT SONAR (BNS-8013170)*; 12 MONTHS $51,736

SATHER, CLIFFORD; *SOCIAL AND ECONOMIC CHANGE IN A MARITIME FISHING SOCIETY (BNS-8014221)*; 12 MONTHS $26,003

PENNSYLVANIA

BRYN MAWR COLLEGE

GOODALE, JANE C; *PROCESSES OF CONTINUITY AND CHANGE IN CULTURE AND SOCIETY (BNS-8004582)*; 24 MONTHS $55,421

KAHN, MIRIAM; *THE CULTURAL ECOLOGY OF AN IRRIGATION SYSTEM (BNS-8005243)*; 12 MONTHS $31,024

GOODALE, JANE C; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8007257)*; 24 MONTHS $4,145

CARNEGIE INSTITUTE

RICHARDSON, JAMES B; *CONSERVATION AND STORAGE OF THE NORTH AMERICAN BASKETRY COLLECTION (BNS-7905494 A01)*; $5,053

CARNEGIE-MELLON UNIVERSITY

ANDERSON, JOHN R; *EFFECTS OF OLD KNOWLEDGE ON MEMORY FOR NEW INFORMATION (BNS-7817463 A02)*; 12 MONTHS $61,057

HAYES, JOHN R, AND SIMON, HERBERT A; *REPRESENTATION AND TRANSFER IN PROBLEM SOLVING (BNS-7825033 A01)*; 12 MONTHS $43,240

ANDERSON, JOHN R; *A MULTI-USER COMPUTER FACILITY FOR COGNITIVE SIMULATION (BNS-8013051)*; 12 MONTHS $115,580

GETTYSBURG COLLEGE

PITTMAN, THANE S; *DEPRIVATION OF CONTROL AND THE ATTRIBUTION PROCESS (BNS-7817440 A01)*; $5,749

INSTITUTE FOR THE STUDY OF HUMAN ISSUES

SHAPIRO, WARREN; *PUBLICATION BY THE INSTITUTE FOR THE STUDY OF HUMAN ISSUES. (BNS-7926108)*; 12 MONTHS $4,480

MONELL CHEMICAL SENSES CENTER

EPPLE, GISELA, AND KATZ, YAIR; *HORMONAL AND PHEROMONAL CONTROL OF DEVELOPMENT (BNS-7806172 A02*)*; 12 MONTHS $35,126

SMITH, AMOS B, AND EPPLE, GISELA; *CHEMICAL COMMUNICATION IN A PRIMATE: A CHEMICAL AND BEHAVIORAL STUDY (BNS-7819875 A01*)*; 12 MONTHS $29,474

BEAUCHAMP, GARY K, AND WELLINGTON, JUDITH W; *CHEMICAL COMMUNICATION (BNS-7906234 A01*)*; 12 MONTHS $50,000

RHEIN, LINDA D; *BIOCHEMICAL STUDIES OF OLFACTORY RECEPTORS (BNS-7924071)*; 24 MONTHS $75,000

PENNSYLVANIA STATE UNIVERSITY

MICHELS, JOSEPH W, AND TSONG, I S T; *THE EFFECT OF CHEMICAL COMPOSITION ON HYDRATION RATE IN OBSIDIAN DATING (BNS-7824901 A01)*; 12 MONTHS $38,565

CHAGNON, NAPOLEON A; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7919808)*; 12 MONTHS $4,818

SANDERS, WILLIAM T; *SUBSISTENCE SYSTEMS AT TEOTIHUACAN (BNS-8005754)*; 12 MONTHS $60,904

SANDERS, WILLIAM T; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8005825)*; 12 MONTHS $8,875

SWARTHMORE COLLEGE

GERGEN, KENNETH J; *THE PSYCHOLOGY OF SOCIAL EXPLANATION (BNS-7909393 A02)*; 12 MONTHS $42,586

SCHWARTZ, BARRY; *CREATION OF BEHAVIOR UNITS BY CONTINGENT REINFORCEMENT (BNS-7815461 A01)*; 12 MONTHS $34,669

KEMLER, DEBORAH G; *DEVELOPMENT OF PERCEPTUAL AND ANALYTIC SKILLS (BNS-7924035)*; 12 MONTHS $33,012

SCHNEIDER, ALLEN M; *RETROGRADE AMNESIA: A COMPONENT MEMORY ANALYSIS (BNS-7924072)*; 18 MONTHS $56,550

WALLACH, HANS; *SYSTEMATIC STUDY OF ADAPTATION IN SPACE PERCEPTION (BNS-7924463)*; 24 MONTHS $53,037

TEMPLE UNIVERSITY

FRIEDLAENDER, JONATHAN S; *THE BIOLOGY OF ACCULTURATION IN THE SOLOMON ISLANDS (BNS-7707678 A02)*; 12 MONTHS $40,054

MARGULES, DAVID L; *NEUROCHEMISTRY OF OBESITY AND LEARNED TASTE AVERSIONS (BNS-7920616)*; 12 MONTHS $76,000

UNIVERSITY OF PENNSYLVANIA-SCHOOL OF MEDICINE

SALZBERG, BRIAN M; *OPTICAL DETECTION OF NEURONAL ACTIVITY (BNS-7705085 A02)*; 12 MONTHS $29,291

PALMER, LARRY A; *SINGLE AND MULTIPLE UNIT ANALYSES IN STRIATE CORTEX OF CAT (BNS-7825147 A01)*; 12 MONTHS $65,010

UNIVERSITY OF PENNSYLVANIA

THORNTON, EDWARD R; *PHOTOAFFINITY LABELING AND SYNAPTIC CHEMISTRY (BNS-7704019 A02)*; 12 MONTHS $43,000

PREMACK, DAVID; *COMPARATIVE AND DEVELOPMENTAL STUDIES OF COGNITION (BNS-7716353 A02*)*; 12 MONTHS $73,000

PREMACK, DAVID; *COMPARATIVE AND DEVELOPMENTAL STUDIES OF COGNITION (BNS-7716353 A03)*; $6,183

FLEXNER, LOUIS B; *BEHAVIORALLY ACTIVE FRAGMENTS OF ARGININE VASOPRESSIN (BNS-7723306 A01)*; 12 MONTHS $27,227

ASCH, SOLOMON E; *STUDIES IN SOCIAL PSYCHOLOGY (BNS-7821901 A02)*; 12 MONTHS $47,200

HAND, PETER J; *IMAGE ENHANCEMENT EQUIPMENT FOR 2-DEOXYGLUCOSE METABOLIC AND IODOANTIPYRINE BLOOD FLOW STUDIES (BNS-7903679)*; 12 MONTHS $48,829

RALPH, ELIZABETH K; *14C DATING OF SERIES OF ARCHAEOLOGICAL SAMPLES (BNS-7923800)*; 24 MONTHS $37,425

PUGH, EDWARD N; *QUANTITATIVE CHARACTERIZATION OF CHROMATIC ADAPTATION THROUGH THE TWO-COLOR INCREMENT THRESHOLD (BNS-7924163)*; 12 MONTHS $56,122

GELMAN, ROCHEL; *COGNITIVE DEVELOPMENT (BNS-8004881)*; 12 MONTHS $68,267

KING, MARY E; *SURVEY, INVENTORY, AND RENOVATION OF COLLECTION STORAGE AT THE UNIVERSITY MUSEUM (BNS-8005836)*; 12 MONTHS $70,204

DAVENPORT, WILLIAM H; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8008667)*; 24 MONTHS $5,490

NACHMIAS, JACOB; *MECHANISMS OF SPATIAL INTERACTION IN HUMAN VISION (BNS-8008689)*; 12 MONTHS $59,043

COE, WILLIAM R; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8014155)*; 9 MONTHS $9,920

UNIVERSITY OF PITTSBURGH

TUDEN, ARTHUR; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7918353)*; 12 MONTHS $4,152

MCKELVY, JEFFREY F; *REGULATION OF HYPOTHALAMIC RELEASING FACTOR METABOLISM (BNS-7921781)*; 12 MONTHS $77,374

BROWN, L KEITH; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8014361)*; 12 MONTHS $1,590

RHODE ISLAND

BROWN UNIVERSITY

SMITH, LESLIE; *SYNAPTIC PLASTICITY IN THE CEREBRAL CORTEX OF ADULT ANIMALS (BNS-7815933 A01)*; 12 MONTHS $61,622

MILLWARD, RICHARD B; *A REAL-TIME LABORATORY COMPUTER FOR COGNITIVE SCIENCE (BNS-7816273 A01*)*; 6 MONTHS $13,750

SCHRIER, ALLAN M; *VISUAL FIXATIONS DURING TASK PERFORMANCE (BNS-7906784 A01)*; 24 MONTHS $100,000

CONROY, GLENN C; *CEREBRAL DRAINAGE IN PRIMATE SPECIES (BNS-7910669 A01)*; 24 MONTHS $28,924

EBNER, FORD F, AND LENT, CHARLES M; *LEITZ ORTHOPLAN MICROSCOPE AND ACCESSORIES (BNS-7915108)*; 12 MONTHS $69,894

ANDERSON, JAMES A; *COGNITIVE APPLICATIONS OF MATRIX MEMORY MODELS (BNS-7923000*)*; 12 MONTHS $26,962

CSERR, HELEN F; *STRUCTURE AND FUNCTION OF THE BLOOD-BRAIN INTERFACE IN A CEPHALOPOD (BNS-7924064)*; 24 MONTHS $5,000

WAAGE, JONATHAN K; *BEHAVIORAL STRATEGIES IN GENETIC TRANSMISSION IN ODONATA (DEB-8004282*)*; 12 MONTHS $12,999

DWYER, JANE P, GIDDINGS, RUTH W, ROBERTSON, LINDA, ANDERSON, DOUGLAS D, AND HAIL, BARBARA A; *CONSERVATION OF THE SPINDEN PHOTOGRAPHIC AND DOCUMENT COLLECTION (BNS-8005278)*; 18 MONTHS $44,504

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER; *CONFERENCE - SENSORY TRANSDUCTION IN MICROORGANISMS - SANTA BARBARA, CALIFORNIA; JANUARY 8-11, 1980 (BNS-7924615)*; 12 MONTHS $16,470

UNIVERSITY OF RHODE ISLAND

CARROLL, PAUL T; *VESICULAR SYNTHESIS AND RELEASE OF ACETYLCHOLINE (BNS-7905160 A02)*; 12 MONTHS $32,486

SOUTH CAROLINA

MEDICAL UNIVERSITY OF SOUTH CAROLINA

CROUCH, ROSALIE; *SYNTHETIC PHOTOSENSITIVE PIGMENTS (BNS-8011563)*; 12 MONTHS $51,737

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

WANDERSMAN, ABRAHAM; *PARTICIPATION BY RESIDENTS IN NEIGHBORHOOD ORGANIZATIONS (BNS-7910674 A02)*; 6 MONTHS $5,061

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

BURGHARDT, GORDON M; *EARLY EXPERIENCE AND SENSORY PROCESSES (BNS-7814196 A02)*; 12 MONTHS $39,485

VANDERBILT UNIVERSITY-SCHOOL OF MEDICINE

HUMES, LARRY E; *ON THE NATURE OF TWO-TONE AURAL NONLINEARITY (BNS-7924654)*; 24 MONTHS $31,788

VANDERBILT UNIVERSITY

LAPPIN, JOSEPH S; *RECOGNITION OF SPATIAL AND TEMPORAL VISUAL PATTERNS (BNS-7805857 A03)*; 12 MONTHS $42,745

HARRIS, ALICE C; *EVOLUTION OF CASE-MARKING TYPES (BNS-7923452)*; 24 MONTHS $39,921

TEXAS

ARASHIYAMA WEST INSTITUTE

BRAMBLETT, CLAUD A; *MAINTENANCE OF THE ARASHIYAMA TROOP OF JAPANESE MACAQUES (BNS-8013900)*; 12 MONTHS $30,000

BAYLOR COLLEGE OF MEDICINE

BLOSSER, JAMES C; *ACTIVITY DEPENDENT REGULATION OF CONTRACTILE PROTEIN AND ACETYLCHOLINE RECEPTOR (BNS-7914115 A01)*; 12 MONTHS $52,941

RICE UNIVERSITY

GLANTZ, RAYMON M; *DISTRIBUTED PROCESSING OF SENSORY INFORMATION (BNS-7910335 A01)*; 12 MONTHS $53,816

SOUTHERN METHODIST UNIVERSITY

WENDORF, FRED; *PREHISTORIC STUDIES IN EGYPT: THE EMERGENCE OF FOOD PRODUCTION IN THE WESTERN DESERT (BNS-7823943 A01)*; 15 MONTHS $73,170

FREIDEL, DAVID A; *ARCHAEOLOGICAL INVESTIGATIONS AT CERROS: A CHANGING LATE PRECLASSIC LOWLAND MAYA COMMUNITY IN NORTHERN BELIZE (BNS-7824708 A01)*; 12 MONTHS $53,000

TEXAS A & M UNIVERSITY

BATTALIO, RAYMOND C, AND KAGEL, JOHN H; *EXPERIMENTAL STUDIES OF CONSUMER DEMAND AND LABOR SUPPLY (SES-7727062 A02*)*; 12 MONTHS $20,000

UNIV OF TEXAS AT AUSTIN

WICKLUND, ROBERT A; *MOTIVES AND STRATEGIES FOR CREATING ATTRIBUTE AMBIGUITY (BNS-7913838 A01)*; $2,500

WICKLUND, ROBERT A; *MOTIVES AND STRATEGIES FOR CREATING ATTRIBUTE AMBIGUITY (BNS-7913838 A02)*; 12 MONTHS $47,000

SMITH, CARLOTA S; *COMPLEXITY AND LANGUAGE ACQUISITION: A STUDY OF TEMPORAL REFERENCE (BNS-7921297)*; 18 MONTHS $20,111

MACNEILAGE, PETER F; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (BNS-7923702)*; 6 MONTHS $674

BAKER, CARL L; *SYNTACTIC THEORY AND THE PROJECTION PROBLEM (BNS-7924672)*; 24 MONTHS $57,929

MALINA, ROBERT M; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8004316)*; 18 MONTHS $7,779

UNIV OF TEXAS AT DALLAS

RUPERT, ALLEN L, MOUSHEGIAN, GEORGE, AND LANGFORD, TED L; *NEURAL CORRELATES OF BINAURAL SIGNAL DETECTION (BNS-7914221 A01)*; 12 MONTHS $68,363

FREDERICKSON, C J; *CENTRAL PROJECTIONS OF THE MACULAR AFFERENTS (BNS-8003684)*; 24 MONTHS $54,695

UNIV OF TEXAS HEALTH SCI CENTER AT SAN ANTONIO

BIEDENBACH, MARIA A; *NEURAL MECHANISMS OF OROFACIAL PAIN (BNS-7806953 A01)*; 12 MONTHS $21,297

MILLER, ALEXANDER L; *CARBON DIOXIDE AND INTERMEDIARY METABOLISM OF DEVELOPING BRAIN (BNS-8040286)*; 12 MONTHS $30,000

UNIV OF TEXAS HEALTH SCIENCE CENTER AT DALLAS

MIHAILOFF, GREGORY A; *THE AFFERENT AND EFFERENT CONNECTIVITY OF BASILAR PONS (BNS-8004853)*; 12 MONTHS $40,000

UNIV OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON

WRIGHT, ANTHONY A; *RETINAL AND CENTRAL PROCESSING OF WAVELENGTH INFORMATION IN AVIANS (BNS-7807253 A01)*; 12 MONTHS $40,674

WRIGHT, ANTHONY A; *RETINAL AND CENTRAL PROCESSING OF WAVELENGTH INFORMATION IN AVIANS (BNS-7807253 A02)*; 12 MONTHS $40,365

CLEMENT-CORMIER, YVONNE C; *PURIFICATION AND CHARACTERIZATION OF THE DOPAMINE RECEPTOR (BNS-7816003 A01)*; $20,801

SPERLING, HARRY G; *COLOR RECEPTOR MOSAIC OF PRIMATES (BNS-7925599)*; 12 MONTHS $56,252

BOUDREAU, JAMES C; *NEUROPHYSIOLOGICAL ANALYSIS OF SENSORY SYSTEMS OF THE FACIAL NERVE (BNS-8013036)*; 12 MONTHS $63,000

UNIV OF TEXAS MEDICAL BRANCH AT GALVESTON-UNIV OF TEXAS MARINE BIOMEDICAL INSTITUTE

COULTER, JOE D; *IPA MOBILITY ASSIGNMENT (J. D. COULTER) (BNS-8021543)*; 11 MONTHS $45,642

UNIV OF TEXAS MEDICAL BRANCH AT GALVESTON

RITCHIE, AILEEN K; *PHYSIOLOGY AND BIOCHEMISTRY OF PRESYNAPTIC RECEPTORS ON NEURONAL CELL LINES (BNS-7924466)*; 24 MONTHS $105,000

PINSKER, HAROLD; *NEUROETHOLOGICAL ANALYSIS OF SIMPLE REFLEXES (BNS-8016421)*; 12 MONTHS $60,000

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

LACHMAN, ROY, AND LACHMAN, JANET L; *MEMORY AND THE ACTUALIZATION OF KNOWLEDGE (BNS-7725657 A02)*; 12 MONTHS $41,087

ESKIN, ARNOLD; *NEURAL BASIS OF ENTRAINMENT OF CIRCADIAN RHYTHMS (BNS-7924133*)*; 18 MONTHS $61,000

UTAH

UNIVERSITY OF UTAH-COLLEGE OF MEDICINE

HORCH, KENNETH W; *SPECIFICITY IN REGENERATING MAMMALIAN SENSORY NEURONS (BNS-7916565)*; 12 MONTHS $49,760

UNIVERSITY OF UTAH

CERLING, THURE E, AND BROWN, FRANCIS H; *PLIO-PLEISTOCENE PALEOCLIMATOLOGY AND CORRELATION BETWEEN EAST AFRICAN HOMINID LOCALITIES (BNS-8007354)*; 12 MONTHS $72,668

VIRGINIA

COLLEGE OF WILLIAM AND MARY

BRUSH, STEPHEN B; *IPA MOBILITY ASSIGNMENT (STEPHEN B. BRUSH) (BNS-8021471)*; 15 MONTHS $45,870

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

POLLARD, JOSEPH P; *SUPPORT FOR THE COMMITTEE ON VISION AND THE COMMITTEE ON HEARING BIOACOUSTICS AND BIOMECHANICS OF THE NAS/NRC (BNS-7715827 A03)*; 12 MONTHS $30,000

UNIVERSITY OF VIRGINIA

HACKETT, JOHN T; *SYNAPTIC EXCITATION OF CEREBELLAR PURKINJE CELLS (BNS-7715527 A02)*; 12 MONTHS $53,300

WALKER, W LAURENS; *THEORY OF PROCEDURE: TESTS AND EXPLORATION (BNS-7817438 A02*)*; 12 MONTHS $16,315

NEWTSON, DARREN, AND PENNEBAKER, JAMES W; *PSYCHOLOGICAL IMPACT OF MT. ST. HELENS (BNS-8020873)*; 6 MONTHS $10,000

VIRGINIA COMMONWEALTH UNIVERSITY-HEALTH SCIENCES DIVISION

MARTINEZ-CARRIO, MARINO; *MOLECULAR BIOPHYSICS APPROACH TO SYNAPTIC RECEPTORS (BNS-7724715 A02)*; 12 MONTHS $61,200

VIRGINIA COMMONWEALTH UNIVERSITY

LEICHNETZ, GEORGE R; *CORTICAL AFFERENTS TO BRAINSTEM PREOCULOMOTOR NUCLEI (BNS-7822971 A01)*; 12 MONTHS $45,000

VIRGINIA POLYTECHNIC INSTITUTE

SIEGEL, PAUL B, AND VAN KREY, HARRY P; *PHYSIOLOGICAL AND GENETIC ANALYSES OF BEHAVIORS (BNS-7824493 A01)*; 12 MONTHS $36,998

SCHWAB, WALTER E; *INTERCELLULAR COMMUNICATION IN COELENTERATES (BNS-8004851)*; 12 MONTHS $62,600

WASHINGTON AND LEE UNIVERSITY

JARRARD, LEONARD E; *FUNCTIONAL DISSOCIATION WITHIN THE HIPPOCAMPAL FORMATION (BNS-8005735)*; 12 MONTHS $33,095

WASHINGTON

CENTRAL WASHINGTON UNIVERSITY

FOUTS, ROGER S; *INTEGRATION OF COMMUNICATION SYSTEMS AND CULTURAL TRANSMISSION OF SIGN LANGUAGE BY CHIMPANZEES (BNS-8023019*)*; 12 MONTHS $61,400

UNIVERSITY OF WASHINGTON-SCHOOL OF MEDICINE

NATHANSON, NEIL M; *INNERVATION AND DIFFERENTIATION OF THE HEART (BNS-8008664)*; 12 MONTHS $70,000

UNIVERSITY OF WASHINGTON

KUHL, PATRICIA K; *PERCEPTION OF COMPLEX AUDITORY SIGNALS IN PRIMATES (BNS-7709940 A02)*; 12 MONTHS $35,303

LOFTUS, ELIZABETH F; *RECONSTRUCTIVE MEMORY PROCESSES IN EYEWITNESS TESTIMONY (BNS-7726856 A02)*; 12 MONTHS $45,296

TELLER, DAVIDA Y; *VISION IN HUMAN INFANTS (BNS-7823053 A01)*; 12 MONTHS $41,000

CHRISMAN, NOEL J; *HEALTH BELIEFS, SOCIAL NETWORKS, AND PATIENT MEDICAL OUTCOMES (BNS-7824478 A01)*; 12 MONTHS $56,287

LOFTUS, GEOFFREY R; *A THEORY OF MEMORY FOR VISUAL MATERIAL (BNS-7906522 A01)*; 12 MONTHS $32,952

ROHWER, SIEVERT A; *DOCTORAL DISSERTATION RESEARCH IN PSYCHOBIOLOGY (BNS-7906816*)*; 24 MONTHS $263

KUHL, PATRICIA K; *COMPLEX AUDITORY PERCEPTION IN EARLY INFANCY (BNS-7913767)*; 14 MONTHS $66,096

PALKA, JOHN; *INSECT NEURAL DEVELOPMENT (BNS-7914111 A01)*; 12 MONTHS $40,026

SCHWARTZKROIN, PHILIP A; *LOCAL INTERACTIONS AMONG HIPPOCAMPAL NEURONS (BNS-7915115)*; 12 MONTHS $30,000

WENKE, ROBERT J; *ARCHAEOLOGICAL INVESTIGATIONS AT EL HIBEH, EGYPT (BNS-7924743)*; 6 MONTHS $9,929

ORIANS, GORDON H; *BEHAVIOR PATTERNS AND PARENTAL CARE (BNS-8004873*)*; 24 MONTHS $38,999

BOLLES, ROBERT C; *FEAR-PAIN INTERACTIONS (BNS-8006038)*; 12 MONTHS $26,903
ORIANS, GORDON H; *DOCTORAL DISSERTATION RESEARCH IN PSYCHOBIOLOGY (BNS-8007381*)*; 15 MONTHS $4,810
ROHWER, SIEVERT A; *DETERMINANTS OF RELIABILITY IN SIGNALS OF DOMINANCE STATUS (BNS-8006957*)*; 12 MONTHS $14,015
HUNN, EUGENE; *IMPACT OF ASH FALL FROM MT. ST. HELENS ON NATIVE AMERICAN TRADITIONAL ECONOMIC RESOURCES AND ACTIVITIES (BNS-8021476)*; 6 MONTHS $12,785

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY-MEDICAL CENTER

CULBERSON, JAMES L; *CENTRAL DISTRIBUTION OF SPINAL NERVE AFFERENTS (BNS-7924172)*; 24 MONTHS $60,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON-MEDICAL SCHOOL

WELKER, WALLACE I; *COMPARATIVE STUDY OF SOMATIC SENSORY CIRCUITS OF THE CEREBELLUM (BNS-7716230 A03)*; 12 MONTHS $63,285

UNIVERSITY OF WISCONSIN-MADISON

STRETTON, A O W; *FUNCTIONAL ANALYSIS OF THE NERVOUS SYSTEM OF ASCARIS (BNS-7609641 A02)*; $6,240
SUOMI, STEPHEN J, AND MINEKA, SUSAN; *STUDIES OF SOCIAL SEPARATION IN MACACA MULATTA (BNS-7706802 A02)*; 12 MONTHS $34,476
SCHWARTZ, SHALOM H; *MORAL DECISION MAKING AND BEHAVIOR (BNS-7723287 A02*)*; 14 MONTHS $37,859
MINEKA, SUSAN; *DETERMINANTS OF FEAR AND FEAR EXTINCTION (BNS-7823613 A01)*; 12 MONTHS $27,367
FEIERMAN, STEVEN, AND FEIERMAN, ELIZABETH; *ILLNESS AND SOCIETY IN NORTHERN TANZANIA (BNS-7825336 A01)*; 12 MONTHS $47,140
GRAHAM, FRANCES K; *STARTLE-REFLEX PRECONDITIONING (BNS-7827416*)*; 24 MONTHS $48,000
ELMENDORF, WILLIAM W; *AREAL DIFFUSION AND YUKIAN LANGUAGES (BNS-7906097 A01)*; 12 MONTHS $11,445
KUNG, CHING; *ELECTROPHYSIOLOGY OF WILD-TYPE AND MUTANT PARAMECIUM (BNS-7918554)*; 12 MONTHS $80,000
CASSIDY, FREDERIC G; *DICTIONARY OF AMERICAN REGIONAL ENGLISH (BNS-7924032)*; 12 MONTHS $23,717
OSBORNE, RICHARD H; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7924439)*; 12 MONTHS $4,575
HABERLY, LEWIS B; *ULTRASTRUCTURAL ANALYSIS OF PHYSIOLOGICALLY CHARACTERIZED NEURONS IN THE PIRIFORM CORTEX (BNS-8019067)*; 12 MONTHS $48,351
ODEN, GREGG C; *INTEGRATION OF FEATURAL AND CONTEXTUAL INFORMATION IN LETTER AND WORD IDENTIFICATION (BNS-8014316)*; 24 MONTHS $55,700
KNOWLES, ERIC; *REACTIONS TO VARYING INTERPERSONAL DISTANCES: AN APPROACH-AVOIDANCE MODEL (BNS-8016208)*; 24 MONTHS $120,000

UNIVERSITY OF WISCONSIN-MILWAUKEE

EIDT, ROBERT C; *SEQUENTIAL PHOSPHATE FRACTIONATION OF ANTHROSOLS (SES-7724524 A02*)*; 8 MONTHS $8,343

OTHER

TEXAS

RICE UNIVERSITY

VORHABEN, JEAN E; *CELLULAR MECHANISMS OF AMMONIA DETOXICATION (BBS-7925911)*; 24 MONTHS $94,300

SCIENTIFIC, TECHNOLOGICAL, AND INTERNATIONAL AFFAIRS

INFORMATION SCIENCE AND TECHNOLOGY ACTIVITIES

CALIFORNIA

STANFORD UNIVERSITY

DUNN, DONALD A; *ECONOMICS OF COMPUTER COMMUNICATION NETWORKS (MCS-7802272 A02*)*; 12 MONTHS $84,000
KNUTH, DONALD E; *THEORETICAL BASIS FOR THE DEVELOPMENT OF DOCUMENT PREPARATION SYSTEMS (IST-7921977*)*; 24 MONTHS $205,707

UNIVERSITY OF CALIFORNIA, BERKELEY

ZADEH, LOTFI A; *A THEORY OF APPROXIMATE REASONING (MCS-7906543 A01*)*; 12 MONTHS $14,000

UNIVERSITY OF CALIFORNIA, IRVINE

NARENS, LOUIS; *PROBLEMS IN THE THEORY OF MEASUREMENT THAT PERTAIN TO INFORMATION CONCEPTS (IST-7924019*)*; 36 MONTHS $66,764

UNIVERSITY OF CALIFORNIA, LOS ANGELES

PEARL, JUDEA; *STUDIES IN THE ORGANIZATION OF INFORMATION STRUCTURES (IST-7922062)*; 18 MONTHS $39,174
CHU, WESLEY W; *FILE ALLOCATION AND QUERY OPTIMIZATION FOR DISTRIBUTED DATA BASES (IST-8002671*)*; 24 MONTHS $112,220
PARKER, D STOTT; *DATA SEMANTICS AND LOGICAL DATABASE DESIGN (IST-8012419*)*; 24 MONTHS $57,489

CONNECTICUT

YALE UNIVERSITY

SCHANK, ROGER C; *THEORETICAL FOUNDATIONS OF NATURAL LANGUAGE PROCESSING (IST-8017790*)*; 24 MONTHS $183,785

DELAWARE

UNIVERSITY OF DELAWARE

WEISCHEDEL, RALPH M; *NATURAL LANGUAGE PROCESSING SYSTEMS AND ILL-FORMED INPUT (IST-8009673*)*; 24 MONTHS $136,681

DISTRICT OF COLUMBIA

BUREAU OF SOCIAL SCIENCE RESEARCH INC

WAINER, HOWARD; *SOCIAL SCIENCE APPLICATIONS OF DYNAMIC MULTIVARIATE DISPLAYS (SES-8008481*)*; 12 MONTHS $20,000

DEPARTMENT OF AIR FORCE

ULLMAN, JEFFREY D; *IMPLEMENTATION OF A SIMPLE USER MODEL BY A RELATIONAL DATABASE (IST-8021358*)*; 24 MONTHS $49,487

FLORIDA

FLORIDA STATE UNIVERSITY

EASTMAN, CAROLINE M; *MULTIPLE ATTRIBUTE RETRIEVAL TECHNIQUES FOR TREE-STRUCTURED INFORMATION (IST-8011608*)*; 12 MONTHS $24,063

UNIVERSITY OF FLORIDA

BERNARD, H R; *DEGRADATION OF ACCURACY IN SOCIAL NETWORK DATA (IST-7924965)*; 12 MONTHS $19,403

ILLINOIS

IIT RESEARCH INSTITUTE

BECKER, DAVID S; *AN AUGMENTED ENGLISH DICTIONARY FOR INFORMATION RETRIEVAL (IST-7920867)*; 12 MONTHS $83,285

NORTHWESTERN UNIVERSITY

MOUNT, KENNETH; *MESSAGE SPACES AND COMPUTING TIME IN PERFORMANCE ALLOCATION PROCESSES (IST-8007457)*; 24 MONTHS $78,409

UNIVERSITY OF ILLINOIS AT URBANA

ROUSE, WILLIAM B; *MODELING OF HUMAN BEHAVIOR IN SEEKING AND GENERATING INFORMATION (IST-7916471)*; 24 MONTHS $144,120
WILLIAMS, MARTHA E; *AUTOMATIC DUPLICATE DETECTION OF JOURNAL ARTICLES APPEARING IN MULTIPLE DATA BASES---A FEASIBILITY STUDY (IST-7921018)*; 24 MONTHS $269,303
BROWN, DONNA J; *STORAGE AND ACCESS COSTS IN DATA STRUCTURES FOR INFORMATION RETRIEVEL PROBLEMS (IST-8012240*)*; 24 MONTHS $62,663
SWAMY, SOWMITRI; *ACCESS TIME VERSUS STORAGE SPACE IN INFORMATION RETRIEVAL SYSTEMS (IST-8012243)*; 24 MONTHS $59,829

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

PURI, MADAN L; *PROBLEMS IN DECISION-MAKING AND INFORMATION RETRIEVAL STUDIED WITH TECHNIQUES OF FUZZY SETS AND SYSTEMS (IST-7918468)*; 36 MONTHS $112,690

PURDUE UNIVERSITY

LEIMKUHLER, FERDINAND F; *ANALYSIS AND APPLICATION OF INFORMATION PRODUCTIVITY MODELS (IST-7911893)*; 24 MONTHS $108,099
LEIMKUHLER, FERDINAND F; *ANALYSIS AND APPLICATION OF INFORMATION PRODUCTIVITY MODELS (IST-7911893 A01)*; $1,819
FU, KING-SUN; *RESEARCH ON ERROR-CORRECTING TECHNIQUES IN AUTOMATED INFORMATION PROCESSING (IST-7918884)*; 36 MONTHS $151,794

KENTUCKY

UNIVERSITY OF LOUISVILLE

WHITEHEAD, BRUCE A; *REPRESENTATION AND PROCESSING OF SPATIALLY STRUCTURED INFORMATION IN COGNITION (IST-8011617)*; 24 MONTHS $77,840

MARYLAND

NATIONAL BUREAU OF STANDARDS

KOLL, MATTHEW B; *REFINEMENT AND USE OF CONCEPT SIMILARITIES IN INFORMATION RETRIEVAL (IST-8011607*)*; 12 MONTHS $35,498

UNIVERSITY OF MARYLAND, COLLEGE PARK

MINKER, JACK, AND JACOBS, BARRY E; *APPLICATIONS OF LOGIC AND THEOREM PROVING TO DATABASES (MCS-7919418*)*; 36 MONTHS $100,000

MASSACHUSETTS

BOSTON UNIVERSITY

GROSSBERG, STEPHEN; *DECISION-MAKING AND INFORMATION PROCESSING IN REAL-TIME NETWORK MODELS (IST-8000257*)*; 36 MONTHS $132,900

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

REINTJES, J F; *INVESTIGATIONS OF ELECTRONIC INTERLIBRARY RESOURCE SHARING NETWORKS (IST-7823251 A01)*; 12 MONTHS $86,000

RICHARDS, WHITMAN A; *NATURAL COMPUTATION AND CONTROL (MCS-7922110*)*; 12 MONTHS $50,000

MARCUS, RICHARD S, AND REINTJES, J F; *INVESTIGATIONS OF COMPUTER-AIDED DOCUMENT-SEARCH STRATEGIES (IST-8006516)*; 24 MONTHS $156,360

PIERREHUMBERT, JANET; *THE USE OF INTONATION IN AUTOMATIC SPEECH UNDERSTANDING (IST-8012249)*; 24 MONTHS $43,701

UNIVERSITY OF LOWELL

MCDONOUGH, CAROL C; *A SIMULTANEOUS EQUATION MODEL OF THE DEMAND FOR ACADEMIC AND PROFESSIONAL JOURNALS (IST-7919478)*; 12 MONTHS $25,342

UNIVERSITY OF MASSACHUSETTS, AMHERST

CROFT, W. BRUCE; *A GENERALIZED MODEL OF DOCUMENT RETRIEVAL (IST-8011605)*; 24 MONTHS $61,740

MICHIGAN

UNIVERSITY OF MICHIGAN-MEDICAL SCHOOL

KOCHEN, MANFRED; *DYNAMICS IN THE ORGANIZATION OF SCIENTIFIC SPECIALTIES (IST-8007433)*; 24 MONTHS $134,782

WAYNE STATE UNIVERSITY

TANENHAUS, MICHAEL K; *LEXICAL AMBIGUITY RESOLUTION IN DISCOURSE (IST-8012439)*; 24 MONTHS $38,977

NEW JERSEY

NEW JERSEY INSTITUTE OF TECHNOLOGY

TUROFF, MURRAY; *ELECTRONIC INFORMATION EXCHANGE TEST FACILITY (IST-7721008 A03)*; $2,000

UPSALA COLLEGE

HILTZ, STARR R; *WORKSHOP TO COMPARE AND SYNTHESIZE EVALUATIONS OF COMPUTERBASED INFORMATION EXCHANGE (IST-8018077)*; 6 MONTHS $43,711

NEW YORK

COLUMBIA UNIVERSITY

HARRIS, ZELLIG S; *INFORMATION CORRELATES OF BASIC LANGUAGE STRUCTURES (IST-8017043*)*; 24 MONTHS $74,989

HOFSTRA UNIVERSITY

NEFF, KAREN J; *RESEARCH ON AUTOMATED NATURAL LANGUAGE GENERATION (IST-8006945*)*; 24 MONTHS $110,631

NEW YORK UNIVERSITY

SAGER, NAOMI; *COMPUTER-BASED INVESTIGATION INTO THE STRUCTURE OF INFORMATION (IST-7920788)*; 24 MONTHS $274,645

FALMAGNE, JEAN-CLAU; *PROBABILISTIC MEASUREMENT THEORETIC MODELS OF INFORMATION PROCESSING (IST-7924526*)*; 31 MONTHS $106,909

MOSS, MITCHELL L; *PUBLICATION OF PROCEEDINGS OF A CONFERENCE ON TELECOMMUNICATIONS AND PRODUCTIVITY (IST-8005145*)*; 12 MONTHS $4,968

MACHLUP, FRITZ; *INFORMATION SCIENCE: AN ANALYSIS OF METHODOLOGICAL ISSUES AND INTERDISCIPLINARY RELATIONSHIPS (IST-8009007)*; 12 MONTHS $39,973

QUEENS COLLEGE

MOYNE, JOHN A; *LANGUAGE AND HUMAN INFORMATION PROCESSING (IST-7923585)*; 15 MONTHS $91,140

STATE UNIVERSITY AT BUFFALO

SRIHARI, SARGUR N; *CONTEXTUAL ALGORITHMS FOR TEXT RECOGNITION (IST-8010830*)*; 24 MONTHS $55,800

STATE UNIVERSITY AT STONY BROOK

WARREN, DAVID S; *MONTAGUE GRAMMAR AND DATABASE (IST-8010834*)*; 24 MONTHS $79,902

SYRACUSE UNIVERSITY

MCGILL, MICHAEL J; *A STUDY OF THE IMPACT OF REPRESENTATIONS IN INFORMATION RETRIEVAL SYSTEMS (IST-7921468)*; 24 MONTHS $155,613

UNIVERSITY OF ROCHESTER

ALLEN, JAMES F; *RECOGNIZING INTENT IN NATURAL LANGUAGE (IST-8012418*)*; 24 MONTHS $80,000

NORTH CAROLINA

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

ISENHOUR, THOMAS L; *COMPUTER APPLICATIONS TO ANALYTICAL CHEMISTRY (CHE-7800631 A02*)*; 12 MONTHS $20,000

OHIO

OCLC INC

KASKE, NEAL K; *DEVELOPMENT OF A GENERALIZED ALGORITHM TO DETERMINE TERMINAL REQUIREMENTS FOR ON-LINE CATALOGS IN LIBRARIES (IST-7900312)*; 12 MONTHS $97,902

OREGON

UNIVERSITY OF OREGON - EUGENE

ELLIS, CARLA S; *CONCURRENCY IN THE ACCESS AND MANIPULATION OF INFORMATION STRUCTURES (IST-8012441*)*; 24 MONTHS $62,500

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

HASEMAN, WILLIAM D; *DISTRIBUTED DATA BASE DESIGN (IST-7918472)*; 24 MONTHS $292,962

FRANKLIN INSTITUTE

PETERS, ALEC; *SUPPORT FOR COORDINATION OF SCIENTIFIC AND TECHNICAL INFORMATION ACTIVITIES (IST-7714816 A05)*; 7 MONTHS $50,000

INSTITUTE FOR SCIENTIFIC INFORMATION INC

NOMA, ELLIOT; *CITATION BASED MEASURES OF INTERACTIVITY AND SIMILARITY (IST-7923661)*; 12 MONTHS $38,188

LEHIGH UNIVERSITY

O'CONNOR, JOHN J; *CITING STATEMENTS: RECOGNITION BY COMPUTER AND USE TO IMPROVE FULL-TEXT RETRIEVAL (IST-8004353*)*; 24 MONTHS $115,447

HILLMAN, DONALD J; *A THEORETICAL BASIS FOR KNOWLEDGE MANAGEMENT (IST-8012234)*; 24 MONTHS $123,551

PENNSYLVANIA STATE UNIVERSITY

CHASE, KAREN H; *COMPLETIONS OF RELATIONS AND EMBEDDED JOIN DEPENDENCIES IN RELATIONAL DATABASES: A STUDY USING BOOLEAN MATRICES (IST-8012239*)*; 12 MONTHS $36,630

RHODE ISLAND

BROWN UNIVERSITY

ANDERSON, JAMES A; *COGNITIVE APPLICATIONS OF MATRIX MEMORY MODELS (BNS-7923000*)*; 12 MONTHS $17,640

TEXAS

UNIV OF TEXAS AT AUSTIN

RICH, ELAINE; *INDIVIDUAL USER MODELING IN COMPUTER SYSTEMS (IST-8011614)*; 24 MONTHS $56,315

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

HUBER, GEORGE P, AND THESEN, ARNE; *A STUDY OF THE DISTRIBUTION, PROCESSING, AND USE OF SCIENTIFIC AND TECHNICAL INFORMATION IN RESEARCH ORGANIZATIONS (IST-7913382)*; 12 MONTHS $91,214

UNIVERSITY OF WISCONSIN-MILWAUKEE

HASEMAN, WILLIAM D; *DISTRIBUTED DATA BASE DESIGN (IST-8019259)*; 18 MONTHS $243,651

POLICY RESEARCH AND ANALYSIS

ALABAMA

AUBURN UNIVERSITY

LINK, ALBERT N; *A STUDY OF THE ALLOCATION OF R & D BY CHARACTER OF USE WITHIN U. S. MANUFACTURING FIRMS (PRA-8009552)*; 9 MONTHS $44,373

ARIZONA

UNIVERSITY OF ARIZONA

FOSTER, KENNITH E; *A TECHNOLOGY ASSESSMENT OF THE COMMERCIALIZATION OF MEXICAN GUAYULE (PRA-8007498*)*; 12 MONTHS $72,883

CALIFORNIA

INSTITUTE FOR THE FUTURE-INSTITUTE FOR THE FUTURE-CALIFORNIA

TYDEMAN, JOHN; *TECHNOLOGY ASSESSMENT OF TELETEXT AND VIDEOTEX IN THE U. S. (PRA-8012731)*; 20 MONTHS $226,384

J H WIGGINS COMPANY

PHILIPSON, LLOYD L; *AN INTERGRATED ANALYSIS OF RISK ASSESSMENT METHODOLOGIES AND THEIR EMPLOYMENT IN GOVERNMENTAL RISK MANAGEMENT DECISION-MAKING (PRA-8007238)*; 18 MONTHS $154,869

SRI INTERNATIONAL

MERKHOFER, MILEY W; *A COMPARATIVE STUDY OF RISK ANALYSIS APPROACHES (PRA-8007238)*; 12 MONTHS $145,570

STANFORD UNIVERSITY

ROSENBERG, NATHAN; *THE EMERGENCE AND GROWTH OF THE INDUSTRIAL RESEARCH LABORATORY IN THE U.S. 1890-1970 (PRA-7721852 A01)*; 6 MONTHS $16,926

UNIVERSITY OF CALIFORNIA, BERKELEY

LA PORTE, TODD R; *ASSESSMENT OF ALTERNATIVE ENERGY TECHNOLOGIES: AN INSTITUTIONAL ANALYSIS (PRA-8014185*)*; 15 MONTHS $77,817

UNIVERSITY OF SANTA CLARA

BRUNO, ALBERT V; *AN EMPIRICAL EXAMINATION OF VENTURE CAPITAL ALLOCATION DECISIONS AND THEIR PERFORMANCE (PRA-8006870)*; 24 MONTHS $129,263

CONNECTICUT

YALE UNIVERSITY

RANIS, GUSTAV; EVENSON, ROBERT E; AND FEI, JOHN C; *RESEARCH PROGRAM IN INTERNATIONAL AND DOMESTIC DETERMINANTS OF LDC TECHNOLOGY CHOICE: CONTRASTING AGRICULTURAL AND INDUSTRIAL EXPERIENCE (PRA-8018867)*; 12 MONTHS $251,296

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

TEICH, ALBERT H; *PUBLIC POLICY CONTRIBUTIONS TO SECOND FIVE-YEAR OUTLOOK ON SCIENCE AND TECHNOLOGY (PRA-8013845)*; 12 MONTHS $185,780

GEORGE WASHINGTON UNIVERSITY

LOGSDON, JOHN M; *SCIENCE POLICY SEMINAR SERIES (PFFA-7919881 A01)*; 6 MONTHS $20,156

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

COLEMAN, JOHN S; *CONTRIBUTION TO THE SECOND FIVE-YEAR OUTLOOK (PRA-8008014)*; 24 MONTHS $367,000

KELLY, WILLIAM C; *SCIENCE AND ENGINEERING EDUCATION FOR LONG-TERM NATIONAL NEEDS (PRA-8015304*)*; 10 MONTHS $130,000

OFFICE OF PERSONNEL MANAGEMENT

SUGARMAN, JULE M; *MANAGERIAL INNOVATIONS DESIGNED TO IMPROVE PRODUCTIVITY (PRA-8020576)*; 36 MONTHS $1

ILLINOIS

AMERICAN BAR ASSOCIATION (ABA)-ABA FUND FOR PUBLIC EDUCATION

THOMAS, WILLIAM A; *RESULTS OF THE SCIENTIST-LAWYER COOPERATION UNDER THE NATIONAL ENVIRONMENTAL POLICY ACT (PRA-7914352)*; 18 MONTHS $80,776

DEPAUL UNIVERSITY

ETTLIE, JOHN E; *A LONGITUDINAL STUDY OF TECHNOLOGICAL INNOVATION IN THE FOOD PROCESSING SECTOR (PRA-7914354 A01)*; 18 MONTHS $2,292

ILLINOIS INSTITUTE OF TECHNOLOGY

BIEDERMAN, N P; *ASSESSMENT OF PRIVATE SECTOR ENERGY R & D FUNDING (PRA-7503184 A01)*; $1,686

NORTHWESTERN UNIVERSITY

RADNOR, MICHAEL; *THE EFFECTS OF INTERORGANIZATIONAL RELATIONS ON THE PROCESS AND CONSEQUENCES OF INNOVATION (PRA-7921014 A01)*; 3 MONTHS $9,686

INDIANA

PURDUE UNIVERSITY

JACOBY, JACOB H, AND JACCARD, JAMES J; *ASSESSING THE EFFECTS OF SCIENCE-BASED INFORMATION ON CONSUMER TECHNOLOGICAL CHOICES (PRA-7920585)*; 37 MONTHS $352,982

MAINE

UNIVERSITY OF MAINE, ORONO

COHN, STEVEN; *IPA MOBILITY ASSIGNMENT (STEVEN COHN) (PRA-7807969 A03)*; $996

MARYLAND

CAPITAL SYSTEMS GROUP INC

CLANSKEY, KENNETH B; *INFORMATION SUPPORT SERVICES FOR THE DIVISION OF POLICY RESEARCH AND ANALYSIS (PRA-7522472 A10)*; 5 MONTHS $10,132

CLANSKEY, KENNETH B; *SUPPORT SERVICES FOR RESEARCH INFORMATION PROCESSING AND DISSEMINATION PROGRAMS (EAS-8000049*)*; 12 MONTHS $68,366

UNIVERSITY OF MARYLAND, COLLEGE PARK

OLSON, MANCUR; *THE POLITICAL ECONOMY OF INNOVATION AND GROWTH (PRA-8006185)*; 24 MONTHS $164,476

MAC LEAN, DOUGLAS; *RISK AND CONSENT: THREE CONCEPTUAL MODELS (PRA-8000019)*; 24 MONTHS $167,786

MASSACHUSETTS

ARTHUR D LITTLE INC

MARCH, FREDERIC; *THE EFFECT OF REGULATORY, ENVIRONMENTAL, ENERGY AND ECONOMIC POLICIES ON SOLAR INVESTMENTS BY THE ELECTRIC UTILITY INDUSTRIES-- A TEST CASE WITH WIND POWER (PRA-8000488)*; 12 MONTHS $150,029

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

YIN, ROBERT K; *IMPROVING THE CASE STUDY METHOD FOR POLICY AND INNOVATION STUDIES (PRA-7900580)*; 18 MONTHS $87,528

LUND, ROBERT T; *CASE STUDY OF UNIVERSITY-TO-INDUSTRY TECHNOLOGY TRANSFER (PRA-8006821)*; 6 MONTHS $24,980

VON HIPPEL, ERIC; *STUDY OF THE EFFECTIVENESS OF MECHANISMS USED BY INNOVATORS TO CAPTURE ECONOMIC BENEFIT FROM THEIR INNOVATIONS (PRA-8019244)*; 24 MONTHS $178,270

MICHIGAN

MICHIGAN STATE UNIVERSITY

DAVIDSON, WILLIAM S; *SALIENT PROCESSES IN THE IMPLEMENTATION OF TECHNOLOGY (PRA-7920576)*; 12 MONTHS $147,625

UNIVERSITY OF MICHIGAN

COOKE, ROBERT A; *THE IMPLEMENTATION OF INNOVATIONS BY MUNICIPALITIES: RESOURCE RECOVERY SYSTEMS (PRA-8003192)*; 18 MONTHS $156,091

MINNESOTA

UNIVERSITY OF MINNESOTA

AZEVEDO, ROSS E; *A THEORETICAL AND EMPIRICAL STUDY OF SYSTEMS OF COMPENSATION FOR EMPLOYED INVENTORS (PRA-7921583)*; 7 MONTHS $43,469

NEW HAMPSHIRE

FRANKLIN PIERCE LAW CENTER

BARAM, MICHAEL S; *AN EXAMINATION OF ALTERNATIVES TO GOVERNMENT REGULATION FOR THE MANAGEMENT OF TECHNOLOGICAL RISKS (PRA-8007227)*; 18 MONTHS $163,015

NEW JERSEY

ECON INC

HAZELRIGG, GEORGE A; *PRELIMINARY IMPLEMENTATION OF A DECISION ANALYTIC MANAGEMENT INSTRUMENT FOR PRIORITIZING AND EVALUATING RD&D ALTERNATIVES FOR COMPLEX PROJECTS (PRA-8011101)*; 4 MONTHS $48,293

INNOVATIVE SYSTEMS RESEARCH INC

PARIS, ALAN A; *IDENTIFY AND ASSESS THE IMPACT OF MARKET FACTORS UPON COMMERCIALIZATION OF INDIVIDUAL, FEDERALLY-SPONSORED R&D PROJECTS (PRA-7920307 A01)*; 24 MONTHS $11,800

MATHEMATICA-MATHTECH INC

WISE, DONALD E; *THE IMPACT OF PUBLIC R & D ON PATENTING AND SCIENTIFIC MANPOWER RETENTION BY FIRMS IN THE PRIVATE SECTOR (PRA-8003844)*; 12 MONTHS $106,315

RUTGERS UNIVERSITY

HULL, FRANK M; *TECHNICAL-MARKET CONTEXT, ORGANIZATIONAL DESIGN, AND INDUSTRIAL INNOVATION (PRA-8001156)*; 24 MONTHS $162,966

NEW MEXICO

LOS ALAMOS SCIENTIFIC LABORATORY

PENDLEY, ROBERT; *IPA MOBILITY ASSIGNMENT (ROBERT PENDLEY) RETROACTIVE SALARY INCREASE (PRA-7828022 A01)*; 1 MONTHS $708

NEW YORK

CORNELL UNIVERSITY

PIMENTEL, DAVID; *ASSESSMENT OF THE SCIENTIFIC AND TECHNOLOGICAL INFORMATION BASE FOR DECISIONS ON MANAGEMENT OF PESTS USING NON-CHEMICAL CONTROLS (PRA-8000703)*; 18 MONTHS $81,011

LAVINE, MITCHELL J; *USE OF EMBODIED ENERGY VALUES IN THE ANALYSIS OF ENERGY/ENVIRONMENTAL TRADE-OFF DECISIONS: AN EXPLORATORY ANALYSIS (PRA-8003845)*; 24 MONTHS $150,000

FUND FOR MULTINATIONAL MANAGEMENT EDUCATION

BEHRMAN, JACK N, AND FISCHER, WILLIAM A; *R&D AND INTERNATIONAL COMPETITIVENESS (PRA-7917525)*; 10 MONTHS $38,874

INSTITUTE ON MAN AND SCIENCE

ENK, GORDON A; *POLLUTION-INDUCED DISEASE: AN ASSESSMENT OF THE SCIENTIFIC KNOWLEDGE DATA BASE RELATED TO VICTIM COMPENSATION ISSUES (PRA-7913729)*; 18 MONTHS $90,090

NATIONAL BUREAU OF ECONOMIC RESEARCH INC-NATIONAL BUREAU OF ECONOMIC RES INC-NEW YORK

LIPSEY, ROBERT E; *MULTINATIONAL FIRMS AND HOST-COUNTRY TECHNOLOGY (PRA-8017545)*; 12 MONTHS $84,580

NEW YORK UNIVERSITY

MOSS, MITCHELL L; *PUBLICATION OF PROCEEDINGS OF A CONFERENCE ON TELECOMMUNICATIONS AND PRODUCTIVITY (IST-8005145*)*; 12 MONTHS $4,963

ZIMMERMAN, RAE; *THE MANAGEMENT OF RISK: AN ORGANIZATION-THEORETIC APPROACH (PRA-8012732)*; 12 MONTHS $42,096

LEONTIEF, WASSILY W; *EFFECTS OF TECHNOLOGICAL CHANGE ON EMPLOYMENT (PRA-8012844)*; 24 MONTHS $327,412

SOCIAL SCIENCE RESEARCH COUNCIL

PREWITT, KENNETH; *SOCIAL SCIENCE CONTRIBUTION TO SECOND FIVE-YEAR OUTLOOK ON SCIENCE AND TECHNOLOGY (PRA-8017924)*; 12 MONTHS $119,943

UNIVERSITY OF ROCHESTER

JACOBSON, LOUIS S; *LABOR ADJUSTMENT TO TECHNICAL CHANGE: A MULTI-INDUSTRY STUDY (PRA-7830597 A01)*; 12 MONTHS $7,124

OHIO

UNIVERSITY OF CINCINNATI

BAKER, NORMAN R; *A MULTIVARIATE ANALYSIS OF INDUSTRIAL R & D PROJECTS AND ITS IMPLICATIONS FOR POLICY ANALYSIS AND MANAGEMENT (PRA-7921581)*; 14 MONTHS $124,421

OREGON

PORTLAND STATE UNIVERSITY

LINSTONE, HAROLD A; *ALTERNATIVE MODELS OF THE DECISION-MAKING PROCESS AND THEIR APPLICATIONS TO TECHNOLOGY ASSESSMENT (PRA-7910090 A01)*; 3 MONTHS $10,293

PENNSYLVANIA

BUCKNELL UNIVERSITY

LESHNER, ALAN I; *IPA MOBILITY ASSIGNMENT (ALAN LESHNER) (PRA-8020563)*; 13 MONTHS $46,361

UNIVERSITY OF PITTSBURGH

NEHNEVAJSA, JIRI; *IPA MOBILITY AGREEMENT (NEHNEVAJSA, J.) (PRA-7925730 A01)*; 13 MONTHS $2,612

UTAH

OROS COMPANY

DE NEVERS, NOEL; *AN AIR QUALITY APPROACH TO NATURAL GAS CURTAILMENTS- A TRADEOFFS APPROACH (PRA-7913735)*; 24 MONTHS $101,003

VIRGINIA

FORECASTING INTERNATIONAL LTD

CETRON, MARVIN J; *EVALUATION OF TECHNOLOGY ASSESSMENTS AND DEVELOPMENT OF EVALUATION PROTOCOLS (PRA-8022613)*; 18 MONTHS $119,758

KAPPA SYSTEMS INC

DARNELL, WILLIAM G; *CONTINUATION AND IMPROVEMENT OF THE EXTERNAL PRODUCT EVALUATION SYSTEM (PRA-8007241*)*; 12 MONTHS $107,594

WASHINGTON

BATTELLE MEMORIAL INSTITUTE-BATTELLE NORTHWEST LABORATORIES

CAMPBELL, RICHARD S; *TECHNOLOGY INDICATORS BASED ON PATENT DATA (PRA-7820321 A02)*; 27 MONTHS $195,000

SCIENCE RESOURCES STUDIES

CALIFORNIA

EVALUATION AND TRAINING INSTITUTE

ROSE, CLARE; *THE STATUS OF WOMEN SCIENTISTS AND ENGINEERS IN PRIVATE INDUSTRY: A CASE STUDY (SRS-7900830)*; 18 MONTHS $130,573

HIGHER EDUCATION RESEARCH INSTITUTE INC

ZUMETA, WILLIAM; *THE CHANGING ROLE OF POSTDOCTORAL TRAINING IN THE SCIENCES (SRS-8011953)*; 16 MONTHS $83,688

CONNECTICUT

YALE UNIVERSITY

CLARK, BURTON R; *THE ACADEMIC LABOR MARKET AND THE CAREERS OF PHD'S: TEMPORAL CHANGE AND INSTITUTIONAL EFFECTS (SRS-7818307 A01)*; $4,790

DISTRICT OF COLUMBIA

AMERICAN COUNCIL ON EDUCATION

ATELSEK, FRANK; *HIGHER EDUCATION PANEL (SRS-7816385 A05)*; 19 MONTHS $137,212

ATELSEK, FRANK; *HIGHER EDUCATION PANEL (SRS-7816385 A06)*; $3,850

BUREAU OF LABOR STATISTICS

ROSENTHAL, NEAL H; *DEVELOPING ANNUAL ESTIMATES OF MANUFACTURING INDUSTRY EMPLOYMENT FOR SCIENTIFIC, ENGINEERING, AND TECHNICAL OCCUPATIONS (SRS-7906682 A01)*; 12 MONTHS $210,000

MACDONALD, BRIAN; *DEVELOPING ANNUAL ESTIMATES OF EMPLOYMENT FOR SCIENTIFIC, ENGINEERING AND TECHNICAL OCCUPATIONS (SRS-7906682 A02)*; 17 MONTHS $240,000

GEORGE WASHINGTON UNIVERSITY

PEARSALL, EDWARD S; *AN ECONOMETRIC STUDY OF THE EMPLOYMENT AND SALARIES OF ACADEMIC SCIENTISTS AND ENGINEERS: AN EXPLORATION WITH AGGREGATED SURVEY DATA (SRS-8017016)*; 12 MONTHS $57,553

MOSHMAN ASSOCIATES INC

NOZICKA, GEORGE J; *DATA PROCESSING OF FOUR NSF UNIVERSITY SURVEY SYSTEMS, FY 1980 (SRS-7828113 A04)*; 12 MONTHS $213,621

MOSHMAN, JACK; *DATA PROCESSING FOR FEDERAL FUNDS FOR RESEARCH AND DEVELOPMENT, FISCAL YEARS 1978, 1980, AND 1981, VOLUME XXIX (SRS-8014710)*; 12 MONTHS $48,987

NATIONAL ACADEMY OF SCIENCES

MAXFIELD, BETTY D; *ANALYSES BASED ON THE 1979 SURVEY OF DOCTORATE RECIPIENTS (SRS-7828100 A02)*; 12 MONTHS $196,000

MAXFIELD, BETTY D; *ANALYSES FOR THE NATIONAL INSTITUTES OF HEALTH AND NATIONAL ENDOWMENT FOR THE HUMANITIES BASED ON THE 1979 SURVEY OF DOCTORATE RECIPIENTS AND CONDUCT OF A MAILGRAM FOLLOW-UP (SRS-7828100 A03)*; 8 MONTHS $10,500

MAXFIELD, BETTY D; *1981 SURVEY OF DOCTORATE RECIPIENTS IN SCIENCE, ENGINEERING AND THE HUMANITIES (SRS-7828100 A04)*; 12 MONTHS $100,000

KELLY, WILLIAM C; *STUDY OF PROJECTIONS OF DEMAND FOR YOUNG FACULTY IN SCIENCE AND ENGINEERING (SRS-7913501 A03)*; 4 MONTHS $4,160

KELLY, WILLIAM C; *THE DOCTORATE SURVEY (SRS-7917001 A02)*; 18 MONTHS $154,932

PATENT OFFICE

LAWSON, WILLIAM S; *PATENTING TRENDS IN THE UNITED STATES AND OTHER COUNTRIES (SRS-8006633)*; 9 MONTHS $36,000

SMC-MANAGEMENT TECHNOLOGY INC

BOWERING, DAVID J; *A STUDY TO DEVELOP MODELS FOR ASSESSING THE DIRECT AND INDIRECT EDUCATIONAL IMPACTS OF SPONSORED R&D AT UNIVERSITIES (SRS-8018112)*; 9 MONTHS $84,631

TARP INC

GOODMAN, JOHN A; *FEASIBILITY OF DEVELOPING INTEGRATED SETS OF INDUSTRIAL R & D AND ECONOMIC DATA (SRS-8017030)*; 14 MONTHS $52,629

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

PORTER, ALAN L; *A CROSS DISCIPLINARY ASSESSMENT OF THE ROLE OF THE DOCTORAL DISSERTATION IN CAREER PRODUCTIVITY (SRS-7818959 A01)*; $8,000

ILLINOIS

MARKET FACTS INC

CAMPOS, FRANCIS T; *A LIMITED RESPONSE SURVEY PANEL FOR SCIENTIFIC AND TECHNICAL PERSONNEL RESOURCES (SRS-8025001)*; 12 MONTHS $97,987

NATIONAL OPINION RESEARCH CENTER

MILLER, JON D; *A STUDY OF THE ATTITUDES OF THE U.S. PUBLIC TOWARD SCIENCE AND TECHNOLOGY: ANALYSIS (SRS-7816839 A01)*; 5 MONTHS $19,628

MAINE

UNIVERSITY OF MAINE, ORONO

COOK, WILLIAM N; *ADJUSTMENTS TO THE LABOR MARKET BY SCIENTISTS AND ENGINEERS: A LONGITUDINAL ANALYSIS (SRS-8012257)*; 12 MONTHS $66,125

MARYLAND

BUREAU OF THE CENSUS

BARABBA, VINCENT P; *SURVEY OF RESEARCH AND DEVELOPMENT IN INDUSTRY (SRS-8009839)*; 12 MONTHS $170,000

BARABBA, VINCENT P; *DEVELOPMENT OF 1982 POSTCENSAL SURVEY OF SCIENTISTS AND ENGINEERS (SRS-8012836)*; 12 MONTHS $180,000

BARABBA, VINCENT P; *CONTINUATION OF THE DEVELOPMENT OF THE 1982 POSTCENSAL SURVEY OF SCIENTISTS AND ENGINEERS (SRS-8012836 A01)*; 12 MONTHS $200,000

WESTAT INC

WAKSBERG, MARK; *ADDITIONAL DATA COMPUTATIONS FROM THE 1979 SURVEY OF S/E GRADUATES (SRS-7727580 A02)*; $8,331

HODES, LANCE; *INDICATORS OF SCIENTIFIC RESEARCH INSTRUMENTATION IN ACADEMIC INSTITUTIONS: A FEASIBILITY STUDY (SRS-8017873)*; 11 MONTHS $223,220

MASSACHUSETTS

HARVARD UNIVERSITY

HOLTON, GERALD; *ASSESSMENT OF SCIENCE: THE DEVELOPMENT AND TESTING OF INDICATORS OF QUALITY (SRS-8007378)*; 24 MONTHS $124,804

NEW JERSEY

COMPUTER HORIZONS INC

CARPENTER, MARK P; *CODIFICATION, EXPLANATION, AND DOCUMENTATION OF INTERNATIONAL INDICATORS WORK (SRS-7723770 A02)*; $7,340

CARPENTER, MARK P; *INTERNATIONAL SCIENCE LITERATURE INDICATORS, 1973-77 (AMENDED FOR 1978-1979 DATA) (SRS-7908509 A02)*; 11 MONTHS $126,781

CARPENTER, MARK P; *DEVELOPMENT OF REFINED INDICATORS OF TECHNOLOGICAL INNOVATION USING EXAMINERS' CITATIONS IN THE PATENT FILE (SRS-8019554)*; 2 MONTHS $14,347

NARIN, FRANCIS; *HIGHLY CITED PAPERS AS AN ADVANCED INDICATOR OF NATIONAL SCIENTIFIC PERFORMANCE (SRS-8019980)*; 9 MONTHS $71,899

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

FIORITO, JACK; *THE NEW ENTRANTS COMPONENT OF SCIENTIFIC AND TECHNICAL LABOR SUPPLY (SRS-8006980)*; 3 MONTHS $4,906

WISCONSIN

MATHEMATICA-MATHEMATICA POLICY RESEARCH INC

EDSON, DAVID; *A STOCK FLOW MODEL OF THE CHARACTERISTICS OF THE NATION'S SCIENCE AND ENGINEERING WORKFORCE (SRS-8023327)*; 5 MONTHS $50,344

UNIVERSITY OF WISCONSIN-MADISON

ROBBIN, ALICE; *DEVELOPMENT OF INFORMATION NETWORKS TO PROVIDE DATA ON SCIENTISTS AND ENGINEERS (SRS-791~799)*; 12 MONTHS $14,598

INTERNATIONAL COOPERATIVE SCIENCE PROGRAM

ARIZONA

ARIZONA STATE UNIVERSITY

SHAW, MILTON C; *BRITTLE FRACTURE OF CUTTING TOOLS (INT-7916844)*; 24 MONTHS $6,532

NAVROTSKY, ALEXANDRA; *THERMOCHEMISTRY OF OXIDES AND CHALCOGENIDES AT HIGH TEMPERATURES (INT-7916523)*; 12 MONTHS $9,292

NAVROTSKY, ALEXANDRA; *SILICATE GLASSES AND MELTS: STRUCTURE AND THERMODYNAMICS (INT-8006965)*; 12 MONTHS $13,521

INDIVIDUAL AWARD

COON, SIDNEY A; *MESONIC EFFECTS IN NUCLEI AND NUCLEAR MATTER (PHY-8009527*)*; 24 MONTHS $5,010

UNIVERSITY OF ARIZONA

MEINEL, ADEN B, AND MEINEL, MARJORIE P; *EVALUATION OF NEW ASTRONOMICAL TECHNIQUES USING A REDUCING CAMERA ON THE 60-CM CHUNG-LI TELESCOPE (INT-7990496)*; 12 MONTHS $34,086

SERAPHIN, BERNHARD O; *MATERIALS FOR CONVERSION OF SOLAR RADIATION INTO ELECTRICAL ENERGY (INT-7923364)*; 24 MONTHS $29,876

FERNANDO, QUINTUS; *KINETICS AND THERMODYNAMICS OF THE DISPROPORTIONATION OF COPPER(I) COMPLEXES (INT-8006539)*; 24 MONTHS $35,961

FOSTER, KENNITH E; *A TECHNOLOGY ASSESSMENT OF THE COMMERCIALIZATION OF MEXICAN GUAYULE (PRA-8007498*)*; 12 MONTHS $20,000

LAMARCHE, VALMORE C, AND FRITTS, HAROLD C; *U S - EUROPE WORKSHOP ON DENDROCLIMATOLOGY, JULY 7-11, 1980; NORWICH, ENGLAND (INT-8007833)*; 12 MONTHS $10,000

BARRETT, BRUCE R; *STUDIES OF MICROSCOPIC MANY-BODY THEORIES OF NUCLEAR STRUCTURE, PARTICULARLY FOR COLLECTIVE MOTION (INT-8010626)*; 24 MONTHS $32,077

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

GRUBBS, ROBERT H; *SELECTIVE TRANSFORMATIONS OF ORGANIC MOLECULES BY ORGANOTRANSITION METAL COMPLEXES (INT-7916031)*; 24 MONTHS $5,499

MC KOY, VINCENT; *STUDIES OF MOLECULAR PHOTOIONIZATION CROSS SECTIONS (INT-8001473)*; 12 MONTHS $32,009

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS

MORAFKA, DAVID J; *AN AUTECOLOGICAL STUDY OF THE ENDANGERED BOLSON TORTOISE (GOPHERUS FLAVOMARGINATUS) (INT-8004351)*; 12 MONTHS $15,962

SAN DIEGO STATE UNIVERSITY

HURLBERT, STUART H; *AQUATIC BIOTA OF LATIN AMERICA (DEB-7823929 A01*)*; 12 MONTHS $24,630

FORD, RICHARD F; *POPULATION ECOLOGY AND THE AQUACULTURE OF ECONOMICALLY IMPORTANT ROCK LOBSTERS (PANULIRUS CYGNUS) (INT-7927169)*; 12 MONTHS $35,735

KUMMEROW, JOCHEN; *SCIENTISTS AND ENGINEERS IN ECONOMIC DEVELOPMENT – RESEARCH AND TEACHING IN BRAZIL (INT-8006395)*; 9 MONTHS $17,294

STANFORD UNIVERSITY

BUBE, RICHARD H; *SOLAR PHOTOVOLTAIC CONVERTORS BASED ON CADMIUM-TELLURIDE PREPARED BY HOT-WALL FLASH EVAPORATION (INT-7906574)*; 24 MONTHS $27,998

LITTLE, WILLIAM A; *DEVELOPMENT OF THE DESIGN OF MOLECULAR STRUCTURES (INT-7918085)*; 24 MONTHS $12,296

ZARE, RICHARD N; *MOLECULAR SPECTROSCOPY (INT-7914387)*; 36 MONTHS $55,000

COTTLE, RICHARD W; *TRI-LATERAL WORKSHOP ON MATHEMATICAL PROGRAMMING (INT-8003397)*; 13 MONTHS $10,100

DJERASSI, CARL; *NOVEL STEROLS FROM LOWER MARINE ORGANISMS IN THE BLACK SEA (INT-8009548)*; 36 MONTHS $99,004

UNIVERSITY OF CALIFORNIA, BERKELEY

BERN, HOWARD A; *ENDOCRINE AND OSMOREGULATORY MECHANISMS IN SMOLTIFICATION AND ADAPTATION TO SEAWATER IN SALMONIDS (INT-7914442)*; 24 MONTHS $14,896

WEST, JOHN A; *HYBRIDIZATION AND COMPARATIVE LIFE HISTORY STUDIES OF GIGARTINA AND RELATED RED ALGAE (INT-7918892)*; 24 MONTHS $14,896

THOMAS, GARETH; *MATERIALS AND ENVIRONMENTAL INTERACTIONS: DIRECT OBSERVATIONS BY HIGH VOLTAGE ELECTRON MICROSCOPY AT BMEV (INT-7918586)*; 12 MONTHS $7,910

BUCHANAN, BOB B; *MECHANISM OF RIBONUCLEOTIDE REDUCTION IN PHOTOSYNTHETIC CELLS (INT-8003335)*; 24 MONTHS $39,335

PENZIEN, JOSEPH; *MULTI-SUPPORT, MULTI-COMPONENT SEISMIC EXCITATION OF STRUCTURES WITH SOIL-STRUCTURE INTERACTION (INT-8006944)*; 12 MONTHS $22,352

JONES, RUSSELL L; *GIBBERELLIC ACID AND THE PHYSIOLOGY OF GERMINATING SEEDS (INT-8006389)*; 12 MONTHS $22,302

UNIVERSITY OF CALIFORNIA, DAVIS

SINGER, MICHAEL J; *EFFECTS OF SOIL COVER ON SOIL EROSION BY RAINDROP IMPACT AND OVERLAND WATER FLOW (INT-7905383)*; 11 MONTHS $12,365

FINK, HERMAN J; *RESEARCH ON SUPERCONDUCTIVITY (INT-8006917)*; 12 MONTHS $17,270

UNIVERSITY OF CALIFORNIA, LOS ANGELES

O'CONNOR, JOHN D; *HORMONE BINDING IN DROSOPHILA CELL LINES (PCM-7905471 A02*)*; 12 MONTHS $7,926

KLINGER, ALLEN, AND GERLA, MARIO; *RECONFIGURATION OF COMPUTER NETWORK RESOURCES (INT-7916919)*; 24 MONTHS $30,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

CHRISPEELS, MAARTEN J; *THE FORMATION OF PROTEIN BODIES DURING THE DEVELOPMENT OF BEAN COTYLEDONS (INT-7906990)*; 12 MONTHS $19,361

SUHL, HARRY; *ATOM SURFACE SCATTERING EXPERIMENTS AND THEORY (INT-8019908)*; 36 MONTHS $33,673

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

RUTTER, WILLIAM J; *STRUCTURE AND TRANSCRIPTION OF YEAST TRNA GENES (INT-7930793*)*; 20 MONTHS $25,318

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

BUNTON, CLIFFORD A; *THE ROLE OF ALLYLIC CARBOCATIONS IN CHEMICAL REACTIONS RELATED TO THE BIOSYNTHESIS OF NATURAL PRODUCTS (INT-7927116)*; 24 MONTHS $18,344

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

GRIGGS, GARY B; *SEDIMENT DISPERSAL PATTERNS AND BUDGETS, EASTERN SOUTH ISLAND, NEW ZEALAND (INT-7916513)*; 6 MONTHS $9,505

UNIVERSITY OF SANTA CLARA

PEPLEY, RICHARD K; *SPECIAL FOREIGN CURRENCY AWARD (INCLUDING INDIAN CURRENCY AND U.S. DOLLARS) FOR RESEARCH ON COMBUSTION OF ALCOHOL AND BIOGAS, A CONTINUATION (INT-7930319 A01*)*; 36 MONTHS $47,879

UNIVERSITY OF SOUTHERN CALIFORNIA

REED, C A; *MAGNETIC ANISOTROPHY MEASUREMENTS ON METALLOPORPHYRINS (INT-7918615)*; 3 MONTHS $5,445

COLORADO

COLORADO STATE UNIVERSITY

WARD, GERALD M; *OPTIMIZATION OF ENERGY USE FOR LIVESTOCK PRODUCTION (INT-7918680)*; 36 MONTHS $45,810

TRLICA, M J; *GRASS TILLERING AND ROOT GROWTH AS AFFECTED BY LIGHT ENVIRONMENT, CARBOHYDRATE STATUS, AND DEFOLIATION (INT-8006579)*; 24 MONTHS $25,000

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

KASAHARA, AKIRA; *INFLUENCE OF THE EARTH'S OROGRAPHY ON THE ATMOSPHERIC GENERAL CIRCULATION (INT-7933331)*; 24 MONTHS $14,905

RESEARCH INSTITUTE OF COLORADO (RIC)

REITER, ELMAR R; *THE INTERANNUAL VARIABILITY OF TROPICAL AND SUBTROPICAL ATLANTIC CIRCULATION PATTERNS: POSSIBLE CAUSES AND EFFECTS (INT-8009215)*; 24 MONTHS $28,973

CONNECTICUT

UNIVERSITY OF CONNECTICUT

RUSBEK, ARNOLD; *RESEARCH ON ATOMIC AND MOLECULAR COLLISIONS (INT-8017085)*; 12 MONTHS $39,492

YALE UNIVERSITY

PALADE, GEORGE E; *BIOCHEMISTRY OF ENDOTHELIAL SURFACE AND SUBCELLULAR COMPONENTS (INT-8016156)*; 36 MONTHS $73,979

SOLL, DIETER G; *GENETICS OF TRANSFER RNA MODIFICATION (INT-8017853)*; 36 MONTHS $19,481

DELAWARE

UNIVERSITY OF DELAWARE

JAIN, MAHENDRA K; *STUDIES ON A PHOSPHOLIPASE A2 FROM HUMAN PLATELETS (INT-7901a0a)*; 24 MONTHS $44,371

KATZER, JAMES R; *THE ROLE OF ELECTRONIC PROPERTIES IN CATALYTIC BEHAVIOR OF HIGHLY DISPERSED, SUPPORTED METALS AND METAL CLUSTER CATALYSTS (INT-8000-0-0)*; 24 MONTHS $90,000

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

RATCHFORD, J. THOMAS; *SPECIAL FOREIGN CURRENCY AWARD (INDIAN CURRENCY) FOR A GLOBAL SEMINAR ON THE ROLE OF SCIENTIFIC & ENGINEERING SOCIETIES IN DEVELOPMENT (INT-8006180*)*; 12 MONTHS $21,000

CATHOLIC UNIVERSITY OF AMERICA

COOK, RICHARD K; *ORIGINS OF ATMOSPHERIC INFRASOUND (INT-8008001)*; 12 MONTHS $22,524

COURTESY TRAVEL SERVICE

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (INT-7720877 A08)*; 4 MONTHS $200,000

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (INT-8010782*)*; 12 MONTHS $264,000

DEPARTMENT OF NAVY-NAVAL RESEARCH LABORATORY

SPICER, DANIEL S; *DIFFERENCE BETWEEN COMPACT AND DOUBLE RIBBON SOLAR FLARES (INT-7914914)*; 24 MONTHS $5,375

GEORGE WASHINGTON UNIVERSITY

MAHMOOD, KHALID; *SPECIAL FOREIGN CURRENCY AWARD (PAKISTANI CURRENCY AND U.S. DOLLARS) FOR PROTOTYPE RESEARCH ON ALLUVIAL CHANNELS IN IRRIGATION CANALS AND MEDIUM SIZE RIVERS (INT-8009474*)*; 48 MONTHS $74,000

GEORGETOWN UNIVERSITY

FINN, EDWARD J; *IPA MOBILITY ASSIGNMENT (EDWARD J. FINN) (INT-8019834)*; 16 MONTHS $57,500

INDIVIDUAL AWARD

NONE, NONE N; *U.S.-FRANCE EXCHANGE OF SCIENTISTS PROGRAM - FRENCH ELEMENT (INT-8015844)*; 36 MONTHS $250,000

NONE, NONE N; *U.S.-FRANCE EXCHANGE OF SCIENTISTS PROGRAM - U.S. ELEMENT (INT-8015845)*; 36 MONTHS $100,000

NATIONAL ACADEMY OF SCIENCES

BULLOCK, MARY B; *EXCHANGE OF SCIENTISTS BETWEEN THE UNITED STATES AND THE PEOPLE'S REPUBLIC OF CHINA (INT-7811843 A01)*; 12 MONTHS $450,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

MITCHELL, LAWRENCE C; *EXCHANGE OF SCIENTISTS BETWEEN NAS, USA, AND THE ACADEMIES OF THE USSR, POLAND, YUGOSLAVIA, ROMANIA, HUNGARY, CZECHOSLOVAKIA, BULGARIA, AND THE GERMAN DEMOCRATIC REPUBLIC (INT-7924250 A08)*; 12 MONTHS $1,254,797

FLORIDA

UNIVERSITY OF FLORIDA

EWEL, JOHN J; *INFORMATION EXCHANGE ON AGROECOSYSTEM RESEARCH (INT-7909967)*; 12 MONTHS $4,451

EDDS, GEORGE T; *TOXICOLOGY OF AFLATOXIN B1 IN THE PRESENCE OF NATURALLY OCCURRING PLANT ALKALOIDS OR TRACE ELEMENTS (INT-7925866)*; 24 MONTHS $42,477

WOOD, FRANK B; *A COOPERATIVE PROGRAM FOR THE OBSERVATION OF INTERACTING BINARY STARS (INT-8011498)*; 24 MONTHS $9,200

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

ROBINS, C R; *DOCTORAL DISSERTATION RESEARCH: ECOLOGY, SYSTEMATICS AND ZOOGEOGRAPHY OF CORAL REEF FISHES IN THE COLOMBIAN CARIBBEAN (INT-8014937)*; 24 MONTHS $6,824

HIGMAN, JAMES B; *WORKSHOP ON UTILIZATION AND CONSERVATION OF LIVING MARINE RESOURCES IN THE CARIBBEAN BASIN (INT-8014310)*; 6 MONTHS $20,852

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

ZUNDE, PRANAS; *U.S.-INDIA WORKSHOP ON MODELING NATIONAL SCIENCE AND TECHNOLOGY INFORMATION SYSTEMS, NEW DELHI, MARCH 10-12, 1980 (AWARD IN INDIAN CURRENCY) (INT-8001435*)*; 6 MONTHS $1,450

UNIVERSITY OF GEORGIA

PRATT, LEE H; *STUDIES ON MOLECULAR PROPERTIES AND INTRACELLULAR DISTRIBUTION OF PHYTOCHROME IN GREEN CELLS (INT-7914699)*; 24 MONTHS $12,000

GUAM

UNIVERSITY OF GUAM

TSUDA, ROY T; *TAXONOMY AND NUTRITIONAL BIOLOGY OF THE AGAROPHYTE GRACILARIA (RED ALGA) FROM TAIWAN AND MICRONESIA (INT-8007526)*; 24 MONTHS $9,815

HAWAII

CENTER FOR CULTURAL&TECH STUDIES/EAST-WEST

MCMAHON, JAMES P; *ADMINISTRATION OF MEETINGS HELD IN HAWAII FOR THE COOPERATIVE SCIENCE PROGRAMS BETWEEN THE U.S. AND ASIAN AND PACIFIC NATIONS (INT-7708959 A04)*; 36 MONTHS $50,000

UNIVERSITY OF HAWAII-MANOA

CHIU, ARTHUR N; *RISK ANALYSIS FOR NATURAL HAZARDS DAMAGE MITIGATION (PFR-7918734*)*; 12 MONTHS $9,100

ILLINOIS

DEPARTMENT OF ENERGY-CHICAGO OPERATIONS OFFICE

COX, BRADLEY; *A STUDY OF ANTIPROTON-NUCLEON INTERACTIONS IN THE P-WEST HIGH INTENSITY LABORATORY (PNY-8004457*)*; 36 MONTHS $35,000

NORTHERN ILLINOIS UNIVERSITY

ROSSING, THOMAS D; *ACOUSTICS OF PLATE VIBRATION (INT-7917300)*; 14 MONTHS $25,640

LING, HSIN-YI; *APPLICATION OF SILICEOUS BIOSTRATIGRAPHY AND PALEOECOLOGY TO THE GEOLOGICAL DEVELOPMENT OF TERTIARY BASINS IN KOREA (INT-8001436)*; 24 MONTHS $15,710

NORTHWESTERN UNIVERSITY

DAVIS, STEPHEN H; *BIFURCATION FROM INFINITY: AN APPLIED MATHEMATICAL INVESTIGATION OF NONLINEAR STABILITY THEORY (INT-7917117)*; 6 MONTHS $4,300

RUBENSTEIN, ALBERT H; *DOCTORAL DISSERTATION RESEARCH: INTER AND INTRA ORGANIZATIONAL INFLUENCES ON THE MEASUREMENT OF R&D OUTPUTS IN U.S. AND INDIAN SCIENTIFIC RESEARCH LABS (INT-8010310*)*; 12 MONTHS $700

SANGAMON STATE UNIVERSITY

SHIN, DOH C; *DEVELOPMENTAL POLICY AND PLANNING IN A RAPIDLY INDUSTRIALIZING SOCIETY (INT-7918829)*; 12 MONTHS $23,643

UNIVERSITY OF ILLINOIS AT U.S.DANA-AGRICULTURAL EXPERIMENT STATION

HAGEMAN, R H; *CARBON NITROGEN INTERACTION IN CROP PRODUCTION (INT-7918813)*; 24 MONTHS $ 1,004

UNIVERSITY OF ILLINOIS AT URBANA

FRAUENFELDER, HANS; *PHOTOELECTRIC AND PHOTOCHEMICAL STUDIES OF BACTERIORHODOPSIN (INT-7917408 A01)*; $5,000

WIDHOLM, JACK M; *STUDIES OF FUSED CROWN GALL AND NORMAL PROTOPLASTS (INT-7914499)*; 24 MONTHS $10,000

MAXSON, LINDA R; *EVOLUTIONARY RELATIONSHIPS AMONG AUSTRALIAN AND AMERICAN ANURANS (INT-7918146)*; 11 MONTHS $19,601

UNIVERSITY OF ILLINOIS MEDICAL CTR AT CHICAGO

LANDS, WILLIAM E; *SELECTIVE METABOLISM OF POLYUNSATURATED FATTY ACIDS THAT ARE SUBSTRATES AND INHIBITORS OF PROSTAGLANDIN SYNTHESIS (INT-7909417)*; 12 MONTHS $17,735

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

MINTON, SHERMAN A; *TOXICITY AND OTHER EFFECTS OF VENOMS OF AUSTRALIAN SNAKES ON PREY AND PREDATOR SPECIES (INT-7910667)*; 5 MONTHS $6,315

PURDUE UNIVERSITY

KOSI, SEVERINO L; *SHORT-TERM VISIT TO DISCUSS PROGRAM FOR COOPERATIVE RESEARCH ON THE DYNAMIC ANALYSIS OF LANDSLIDES (INT-8005752)*; 1 MONTHS $914

UNIVERSITY OF NOTRE DAME

VARMA, ARVIND; *CATALYTIC REACTOR DESIGN - EXPERIMENTS AND MODELS (INT-7910842)*; 12 MONTHS $14,000

IOWA

UNIVERSITY OF IOWA

BEDDOW, JOHN K, AND RAMAKRISHNAN, P; *STUDY OF THE RECLAMATION AND RECYCLING OF FERROUS SCRAP BY POWDER METALLURGY PROCESS (INT-8006019)*; 36 MONTHS $5,500

RUSHTON, GERARD, AND MCNULTY, MICHAEL L; *PLANNING TECHNIQUES FOR THE EFFICIENT LOCATION OF PUBLIC SERVICE FACILITIES IN INDIA (INT-8013879*)*; 24 MONTHS $39,750

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

SWIFT, GEORGE W; *RESEARCH ON EXTRACTIVE DISTILLATION PROCESSES TO RECOVER PETROCHEMICAL FEEDSTOCKS (INT-8006998)*; 24 MONTHS $45,130

BAUMGARTEL, HOWARD; *SPECIAL FOREIGN CURRENCY AWARD (INCLUDING U.S. DOLLARS AND INDIAN CURRENCY) FOR A GUEST SCIEN-*

TIST TO STUDY MANAGEMENT DEVELOPMENT AND TECHNOLOGICAL INNOVATION (INT-8018161);* 12 MONTHS $4,400

MAINE

UNIVERSITY OF MAINE, ORONO

BORNS, HAROLD W; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR A FIELD CONFERENCE ON INDIAN GEOLOGY (INT-7922901*);* 24 MONTHS $4,853

MARYLAND

JOHNS HOPKINS UNIVERSITY-SCHOOL OF HYGIENE & PUBLIC HEALTH

TS'O, PAUL O; *13C AND 19F NUCLEAR MAGNETIC RESONANCE STUDIES ON NUCLEIC ACIDS AND DERIVATIVES (INT-7916913);* 24 MONTHS $5,000

GROSSMAN, LAWRENCE, AND RIAZUDDIN, SHEIKH; *SPECIAL FOREIGN CURRENCY AWARD (IN PAKISTANI CURRENCY AND U.S. DOLLARS) FOR STUDY OF ENZYMOLOGY OF DNA REPAIR (INT-8005168*);* 42 MONTHS $49,556

NATIONAL BUREAU OF STANDARDS

HAYWARD, EVANS, AND DODGE, W R; *ELECTRODISINTEGRATION OF NUCLEAR GIANT RESONANCES (INT-7920734);* 24 MONTHS $20,160

UNIVERSITY OF MARYLAND BALTIMORE PROF SCHOOLS

ROSEN, BARRY P; *STRUCTURE AND FUNCTION OF THE ATP SYNTHETASE COMPLEX OF ESCHERICHIA COLI (INT-7916464);* 24 MONTHS $10,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

DAVIS, WILLIAM S; *DETECTION OF GRAVITATIONAL RADIATION (INT-7913860);* 24 MONTHS $6,000

WEINER, JOHN; *IONIZING COLLISIONS IN THE PRESENCE OF INTENSE OPTICAL FIELDS (INT-7921253);* 12 MONTHS $32,844

DAGALAKIS, NICHOLAS G, MARKS, COLIN H, AND YANG, JACKSON C; *DYNAMICS AND SAFETY OF OFFSHORE STRUCTURES (INT-7922020);* 24 MONTHS $17,744

MASSACHUSETTS

HARVARD UNIVERSITY-HARVARD MEDICAL SCHOOL

BECKWITH, JONATHAN R; *BP (PCM-8012779*);* 24 MONTHS $12,546

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SCLATER, JOHN G; *A DETAILED INVESTIGATION OF EXTENSIONAL MODELS FOR THE CREATION OF THE PANNONIAN BASIN (HUNGARY) (INT-7910875);* 36 MONTHS $74,998

BATHE, KLAUS J; *U. S. - GERMANY WORKSHOP: NONLINEAR FINITE ELEMENT ANALYSIS IN STRUCTURAL MECHANICS (INT-8009470);* 6 MONTHS $22,600

TORRIANI, ANNAMARIA; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR STUDIES ON MECHANISM AND CONTROL OF TRANSCRIPTION AND TRANSLATION IN VIVO AND IN VITRO (INT-8016104*);* 12 MONTHS $4,241

NORTHEAST RADIO OBSERVATORY CORPORATION

ZISK, STANLEY H; *RADIO ASTRONOMICAL INVESTIGATIONS OF MOLECULAR LINE EMISSION IN THE 20-25 GHZ REGION (INT-7924943*);* 18 MONTHS $14,200

TUFTS UNIVERSITY

LANG, KENNETH R; *COLLABORATIVE SOLAR RADIO ASTRONOMY (INT-8006066);* 24 MONTHS $39,828

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

GRIGG, PETER; *HIP JOINT MECHANORECEPTORS: RESPONSES TO STRESS APPLIED TO ISOLATED CAPSULE (INT-8007052);* 6 MONTHS $7,524

UNIVERSITY OF MASSACHUSETTS, AMHERST

LENZ, ROBERT W; *PREPARATION AND CHARACTERIZATION OF NEW POLYESTERS FROM MALIC ACID (INT-7922064);* 24 MONTHS $33,940

KARASZ, FRANK E; *SPECIAL FOREIGN CURRENCY AWARD (INCLUDING INDIAN CURRENCY) FOR U.S. PARTICIPANTS AT THE IUPAC SYMPOSIUM ON 'NEW FRONTIERS IN POLYMER APPLICATIONS' IN INDIA (INT-7922902*);* 6 MONTHS $1,000

WORCESTER POLYTECHNIC INSTITUTE

WEISS, ALVIN H; *DEVELOPMENT OF CATALYSTS FOR HYDROGENATION OF ACETYLENE (INT-7918595);* 36 MONTHS $60,000

MICHIGAN

MICHIGAN STATE UNIVERSITY

SCHWARZWELLER, HARRY K; *CHANGING STRUCTURE OF AGRICULTURE (INT-7914383);* 12 MONTHS $24,759

SCHWARZWELLER, HARRY K; *CHANGING STRUCTURE OF AGRICULTURE (INT-7914383 A01);* $819

HART, HAROLD; *AROMATIC COMPOUNDS WITH FUSED SMALL RINGS (INT-7916950);* 24 MONTHS $7,000

DITRI, FRANK M; *WORKSHOP ON COOPERATIVE RESEARCH NEEDS FOR THE RENOVATION AND REUSE OF MUNICIPAL WASTEWATER IN AGRICULTURE (INT-7923903);* 12 MONTHS $9,980

UNIVERSITY OF MICHIGAN

KRIMM, SAMUEL; *DESIGN OF A SIMPLE COMPUTER PROGRAM TO CALCULATE THE VIBRATIONAL SPECTRA OF MACROMOLECULES (INT-7921964);* 24 MONTHS $10,000

WIGHT, JAMES K; *USE OF LARGE SCALE TEST FACILITIES IN TSUKUBA, JAPAN TO STUDY EARTHQUAKE RESISTANCE OF REINFORCED CONCRETE BUILDINGS (INT-7925409);* 12 MONTHS $28,600

POLLACK, HENRY N; *COOPERATIVE PROJECT IN GEOTHERMAL MEASUREMENTS (INT-8016941);* 21 MONTHS $43,573

WAYNE STATE UNIVERSITY

KONG, YI-CHI M; *REGULATION OF T-LYMPHOCYTE TOLERANCE TO SELF ANTIGENS (INT-7921278);* 9 MONTHS $9,950

TRIVICH, DAN; *PROPERTIES OF CUPROUS OXIDE FOR PHOTOVOLTAIC CELLS (INT-7925781);* 24 MONTHS $19,200

MINNESOTA

UNIVERSITY OF MINNESOTA

SCRIVEN, L E; *COATING FLOWS - FUNDAMENTAL PHENOMENA (INT-8005977);* 24 MONTHS $19,552

FARELL, CESAR; *UNSTEADY LOADS ON ROUNDED STRUCTURES: SURFACE ROUGHNESS EFFECTS (INT-8008014);* 30 MONTHS $40,655

MISSOURI

MISSOURI BOTANICAL GARDEN

GENTRY, ALWYN H; *A FLORISTIC SURVEY OF THE CHOCO REGION OF COLOMBIA (INT-7920783);* 24 MONTHS $21,569

UNIVERSITY OF MISSOURI, COLUMBIA

TAUB, HASKELL; *STUDY OF THE STRUCTURE AND DYNAMICS OF SIMPLE HYDROCARBONS ADSORBED ON GRAPHITE (INT-8012228);* 36 MONTHS $51,114

WASHINGTON UNIVERSITY

WEISS, GUIDO; *HARMONIC ANALYSIS ON SYMMETRIC SPACES (INT-7922059);* 12 MONTHS $20,445

KARDOS, JOHN L; *ADVANCED POLYMERIC COMPOSITES (INT-8015808);* 36 MONTHS $12,600

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

WAYNE, WILLIAM J; *GEOCHRONOMETRIC STUDY OF FOSSIL ROCK GLACIER FACIES OF ANDEAN GLACIOLITHIC SYSTEMS (INT-7920798);* 12 MONTHS $5,800

NEW HAMPSHIRE

AMERICAN UNIVERSITIES FIELD STAFF

THOMPSON, JOHN M; *SEMINAR ON FACTORS AFFECTING FOOD PRODUCTION AND DISTRIBUTION IN SELECTED DEVELOPING COUNTRIES (AWARD INCLUDES INDIAN CURRENCY) (INT-8017210*);* 12 MONTHS $6,500

DARTMOUTH COLLEGE

HOLMES, RICHARD T; *EFFECTS OF HABITAT MANIPULATION ON BIRD POPULATIONS (INT-7927904);* 10 MONTHS $20,394

JOHNSON, NOYE M, AND LYONS, JOHN B; *SPECIAL FOREIGN CURRENCY AWARD (IN PAKISTANI CURRENCY AND U.S. DOLLARS) FOR STUDY OF THE UPLIFE HISTORY OF THE KARAKORUM-HINDUKUSH RANGES (INT-8019373*);* 24 MONTHS $12,284

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

MAYEWSKI, PAUL A; *HIMALAYAN PALEOCLIMATE PROGRAM (HIPP) - A GLACIOLOGICAL APPROACH (INT-8003175*);* 12 MONTHS $6,075

NEW JERSEY

PRINCETON UNIVERSITY

SCHEDL, PAUL; *DNA SEQUENCE ORGANIZATION AND FUNCTION IN D. MELANOGASTER (PCM-7911009*);* 24 MONTHS $42,324

RUTGERS UNIVERSITY

ISAACSON, DAVID; *NUMERICAL ANALYSIS OF SCHRODINGER ENERGY OPERATORS (INT-7920728);* 12 MONTHS $7,000

STEVENS INSTITUTE OF TECHNOLOGY

BOSTICK, WINSTON H, AND NARDI, VITTORIO; *ION ACCELERATION BY COLLECTIVE FIELDS BY MEANS OF RELATIVISTIC ELECTRON BEAMS AND FOCUSSED PLASMA CURRENTS (INT-7926234);* 12 MONTHS $33,011

NEW MEXICO

LOS ALAMOS SCIENTIFIC LABORATORY

CARTWRIGHT, DAVID C; *THE STUDY OF INELASTIC SCATTERING OF ELECTRONS BY ATOMS IN METASTABLE EXCITED STATES (INT-8006077);* 24 MONTHS $15,000

NEW YORK

BROOKHAVEN NATIONAL LABORATORY

YUAN, LUKE C; *INVESTIGATION OF TRANSITION RADIATION DETECTORS AND THEIR APPLICATIONS (PHY-7916503*);* 12 MONTHS $15,000

BROOKLYN COLLEGE

BHATTACHARJI, SOMDEV; *SPC AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR A WORKSHOP ON THE CRUST-MANTLE GEOLOGY OF INDIA (INT-8018117*);* 12 MONTHS $2,360

CITY COLLEGE

BIRMAN, JOSEPH L; *THEORY OF PHYSICAL RESPONSE FUNCTIONS IN SYSTEMS WITH BROKEN SYMMETRY, SUCH AS AMORPHOUS SOLIDS (INT-7918591)*; 24 MONTHS $13,200

BIRMAN, JOSEPH L; *THEORETICAL CONDENSED MATTER PHYSICS (INT-8006220)*; 12 MONTHS $14,957

COLGATE UNIVERSITY

AVENI, ANTHONY F; *THE GRID STRUCTURE OF THE MAYA RUINS (INT-7915152)*; 24 MONTHS $5,605

COLUMBIA UNIVERSITY

NAKANISHI, KOJI; *THE PROCESS OF VISUAL EXCITATION BY SYNTHETIC RETINAL ANALOGUES (INT-7918066)*; 24 MONTHS $8,020

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

DALZIEL, IAN W; *COOPERATIVE GEOLOGIC STUDIES IN THE SOUTHERN ANDES (INT-7920213)*; 24 MONTHS $34,451

HAMLYN, PAUL R; *NOBLE METALS IN OCEANIC ULTRAMAFIC ROCKS (INT-8006603)*; 6 MONTHS $12,330

CORNELL UNIVERSITY

SEVERINGHAUS, SHELDON R; *RESEARCH ON THE WILDLIFE RESOURCES OF TAIWAN (INT-7906539)*; 12 MONTHS $5,380

WOLF, EDWARD D; *MICROSTRUCTURES SCIENCE AND TECHNOLOGY (INT-7916879)*; 24 MONTHS $14,000

SIEGEL, BENJAMIN M; *DIGITAL IMAGE PROCESSING OF HIGH RESOLUTION ELECTRON MICROSCOPE IMAGES (INT-7916897)*; 24 MONTHS $10,000

MORSE, ROGER A; *BIOLOGY AND CONTROL OF VARROA JACOBSONI AN IMPORTANT PARASITIC MITE OF HONEY BEES (DAR-7920922*)*; 22 MONTHS $23,803

STEPONKUS, PETER L; *TEMPERATURE STRESS ON MEMBRANE STRUCTURE AND FUNCTION (INT-8001482)*; 24 MONTHS $13,058

CALVO, JOSEPH M; *REGULATORY AND EVOLUTIONARY RELATIONSHIPS BETWEEN GENE CLUSTERS IN ENTERIC BACTERIA (INT-8003221)*; 36 MONTHS $30,000

GUBBINS, KEITH E; *COOPERATIVE RESEARCH ON MOLECULAR THEORIES OF LIQUIDS (INT-8016843)*; 12 MONTHS $36,641

KARIG, DANIEL E; *CONSOLIDATION OF GEOSCIENCE DATA FROM LUZON: A WORKSHOP (INT-8017875)*; 12 MONTHS $7,400

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

BLOOM, ARTHUR L; *A COMPARATIVE STUDY OF SEISMIC CRUSTAL DEFORMATION IN ARC-TRENCH SYSTEMS (INT-7916923)*; 24 MONTHS $15,000

COUNCIL ON INTERNATIONAL & PUBLIC AFFAIRS INC

MOREHOUSE, WARD, AND GUPTA, BRIJEN K; *ASSESSMENT OF U.S.-INDIA SCIENCE AND TECHNOLOGY RELATIONS: AN ANALYTICAL STUDY OF PAST PERFORMANCE AND FUTURE PROSPECTS (INT-7726001 A03)*; 4 MONTHS $7,590

DOWNSTATE MEDICAL CENTER AT BROOKLYN

KOIZUMI, KIYOMI; *OLFACTORY INFLUENCES ON THE HYPOTHALAMO-HYPOPHYSIAL SYSTEM (INT-8006323)*; 24 MONTHS $33,464

NEW YORK BOTANICAL GARDEN

PRANCE, GHILLEAN T; *U.S. PARTICIPATION IN THE AMAZON FLORA PROJECT: PHASE II (INT-7823341 A01*)*; 12 MONTHS $30,000

KOYAMA, TETSUO; *U.S.A. - THAI SYMPOSIUM ON UNDER-EXPLOITED ECONOMIC PLANTS; BANGKOK, THAILAND; SEPTEMBER 22 TO OCTOBER 4, 1980 (INT-7925896)*; 6 MONTHS $17,304

NEW YORK UNIVERSITY-MEDICAL CENTER

CHIARANDINI, DANTE J; *EXTRACELLULAR CALCIUM AND SKELETAL MUSCLE CONTRACTILITY (INT-7920212)*; 36 MONTHS $6,068

NEW YORK UNIVERSITY

LEVY, PETER M; *THEORY OF ORBITAL EFFECTS IN RARE-EARTH COMPOUNDS (DMR-7825008 A01*)*; 12 MONTHS $18,800

STROKE, H H; *REACTIVE AND COLLISIONAL PROCESSES IN LASER FIELDS (INT-7921530)*; 12 MONTHS $30,534

RENSSELAER POLYTECHNIC INSTITUTE

KATZ, J L; *CORRELATION BETWEEN ELECTRO-MECHANICAL PROPERTIES AND STRUCTURE IN COMPACT MAMMALIAN BONE (INT-7920799)*; 24 MONTHS $30,000

ROCKEFELLER UNIVERSITY

MOORE, STANFORD; *BIOCHEMISTRY OF RIBONUCLEASES (INT-7715791 A01*)*; 12 MONTHS $20,392

SOCIAL SCIENCE RESEARCH COUNCIL

PREWITT, KENNETH; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY AND U. S. DOLLARS) TO STUDY SOUTH ASIAN POLITICAL ECONOMY (INT-8009530*)*; 24 MONTHS $8,317

ST LAWRENCE UNIVERSITY

ASH, WILLIAM J; *IPA MOBILITY ASSIGNMENT (WILLIAM ASH) (INT-7921699 A01)*; 20 MONTHS $1,600

ASH, WILLIAM J; *IPA MOBILITY ASSIGNMENT (WILLIAM J. ASH) (INT-7921699 A02)*; 13 MONTHS $3,200

STATE UNIVERSITY AT BINGHAMTON

NELSON, CHARLES A; *PROBLEMS IN NON-ABELIAN GAUGE THEORIES OF QUARKS AND LEPTONS (INT-7926275)*; 12 MONTHS $13,444

STATE UNIVERSITY AT BUFFALO

HONG, SUK K; *PHYSIOLOGY OF COLD ADAPTATION IN HUMAN AQUATIC DIVERS (INT-7918378)*; 36 MONTHS $15,101

STATE UNIVERSITY AT STONY BROOK

INOUYE, MASAYORI; *BIOGENESIS, STRUCTURE, AND FUNCTIONS OF BACTERIAL OUTER MEMBRANE (INT-7916888)*; 12 MONTHS $10,000

BRINKHUIS, BOUDEWIJN H; *MERCURY EFFECTS ON THE CHILEAN COMMERCIAL SEAWEED GRACILARIA (INT-7926436)*; 12 MONTHS $9,916

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

MCGREGOR, RALPH; *STUDIES OF THE MOLECULAR MOTIONS OF LARGE PENETRANT MOLECULES IN POLYMERS BY SPECTROSCOPIC AND OTHER TECHNIQUES (INT-7926001)*; 12 MONTHS $11,054

SIEWERT, CHARLES E; *DIRECT AND INDIRECT PROBLEMS IN RADIATIVE TRANSFER (INT-8000517)*; 24 MONTHS $24,173

WAKE FOREST UNIVERSITY

KUHN, RAYMOND E; *DOCTORAL DISSERTATION RESEARCH: ANTIGEN ANALYSIS OF TRYPANOSOMA CRUZI (INT-8017218)*; 18 MONTHS $10,311

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA MAIN CAMPUS

STENBERG, VIRGIL I; *THE ANALYTICAL AND ORGANIC CHEMISTRY OF LIGNITE AND SOLVENT REFINED LIGNITE (INT-7916894)*; 24 MONTHS $17,000

OHIO

CASE WESTERN RESERVE UNIVERSITY

HEUER, ARTHUR H; *THE KINETICS OF DISLOCATION DIPOLE ANNIHILATION IN PURE AND DOPED SAPPHIRE (INT-7918651)*; 12 MONTHS $40,825

FACKLER, JOHN P; *WORKSHOP ON STRUCTURAL CHEMISTRY (INT-8017216)*; 24 MONTHS $10,263

KENT STATE UNIVERSITY

VARGA, RICHARD S; *NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS AND APPLICATIONS (INT-7927144)*; 24 MONTHS $10,160

UNIVERSITY OF AKRON MAIN CAMPUS

KENNEDY, JOSEPH P; *SYNTHESIS OF SEQUENTIAL POLYMERS WITH UNUSUAL PROPERTIES (INT-7919194)*; 12 MONTHS $10,550

MCINTYRE, DONALD, AND STEPHENS, HOWARD L; *CHARACTERIZATION OF GUAYULE RESIN AND RUBBER (AND ALSO OTHER MEXICAN NATURAL RUBBERS) AND THE ENHANCEMENT OF INDUSTRIAL USES (INT-8004328)*; 24 MONTHS $36,901

UNIVERSITY OF CINCINNATI

DE JONG, KEES A; *SPECIAL FOREIGN CURRENCY AWARD (PAKISTANI CURRENCY AND U.S. DOLLARS) FOR STUDY OF GEODYNAMICS OF PAKISTAN (INT-8013158*)*; 24 MONTHS $35,897

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

HADY, M A; *SPECIAL FOREIGN CURRENCY AWARD (EGYPTIAN CURRENCY AND U.S. DOLLARS) FOR USE OF MODERN REMOTE SENSING TECHNIQUES IN MONITORING DECERTIFICATION AND NATURAL RESOURCES (INT-8005188*)*; 36 MONTHS $61,730

WALLER, GEORGE R; *ALTERNATIVE ANTIOXIDATIVE COMPOUNDS FORMED IN THE MAILLARD REACTION (INT-8018220*)*; 12 MONTHS $18,277

OREGON

OREGON STATE UNIVERSITY

ROHOVEC, JOHN S; *DETECTION, PREVENTION AND CONTROL OF DISEASES IN FISH (INT-7918595)*; 24 MONTHS $14,562

PEARCY, WILLIAM G; *BIOGEOGRAPHY AND SPECIES DISTRIBUTION OF MICRONEKTON OF THE SUBARCTIC PACIFIC OCEAN (INT-8000685)*; 24 MONTHS $10,690

WHANGER, PHILIP D; *SELENIUM BIOAVAILABILITY IN FORAGES AND SELENIUM PELLETS FOR RUMINANTS (INT-8006256)*; 12 MONTHS $24,990

POLENSEK, ANTON; *SHORT-TERM VISIT TO DISCUSS COOPERATIVE RESEARCH ON MATERIAL PROPERTIES OF AND DESIGN SYSTEMS FOR WOOD-BASED MATERIALS (INT-8023477)*; 6 MONTHS $593

UNIVERSITY OF OREGON - EUGENE

MOSELEY, JOHN T; *ION PHOTOFRAGMENT SPECTROSCOPY (INT-8010761)*; 36 MONTHS $45,862

PARK, KWANGJAI; *WORKSHOP ON RESEARCH METHODOLOGY IN OPTICS (INT-8017219)*; 6 MONTHS $5,374

PENNSYLVANIA

AMERICAN INSTITUTE OF INDIAN STUDIES

DIMOCK, EDWARD C; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR RESEARCH SUPPORT OF U.S. SCIENTISTS WORKING IN INDIA (INT-8016982*)*; 12 MONTHS $15,000

DREXEL UNIVERSITY

POPOVICS, SANDOR; *IMPROVEMENT OF THE DURABILITY OF REINFORCED CONCRETE IN MARINE ENVIRONMENTS (INT-8008869)*; 36 MONTHS $65,750

FRANKLIN AND MARSHALL COLLEGE

RICHARDSON, JONATHAN L; *PALEOECOLOGICAL STUDIES OF AUSTRALIAN DIATOMS (INT-7926261)*; 12 MONTHS $19,261

PENNSYLVANIA STATE UNIVERSITY

SHAMMA, MAURICE; *A STUDY OF THE BERBERIDACEAE OF CHILE: STRUCTURE AND CHEMISTRY OF NEW PLANT ALKALOIDS (INT-8006962)*; 24 MONTHS $29,307

OSSEO-ASARE, K; *PROCESS MINERALOGY AND HYDROMETALLURGY OF REFRACTORY GOLD ORES (INT-8017213)*; 24 MONTHS $97,403

TEMPLE UNIVERSITY

LOSCIUTO, LEONARD A; *A SURVEY OF INTERNATIONAL PROGRAMS (INT-8021596*)*; 15 MONTHS $64,000

UNIVERSITY OF PENNSYLVANIA

VOGEL, F L; *GRAPHITE INTERCALATION COMPOUNDS (INT-7916390)*; 24 MONTHS $38,910

UNIVERSITY OF PITTSBURGH

NEWMAN, EZRA T; *TWISTOR THEORY: ITS APPLICATIONS TO GENERAL RELATIVITY AND PARTICLE THEORY (INT-7918400)*; 24 MONTHS $9,100

WALLACE, W E; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY): A BI-NATIONAL (U.S.-INDIA) CONFERENCE ON THE SCIENCE AND TECHNOLOGY OF RARE EARTH MATERIALS (INT-7923263*)*; 6 MONTHS $550

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND

YOUNGKEN, HEBER W; *A BOTANICAL AND CHEMICAL INVESTIGATION OF TOXIC EGYPTIAN TERRESTRIAL AND MARINE WEEDS (INT-7811289 A01)*; 12 MONTHS $11,162

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

KJERFVE, BJORN; *COASTAL DYNAMICS AND EXCHANGE PROCESSES IN HIGH-ENERGY ESTUARINE/SHALLOW-MARINE SYSTEMS (INT-7911180)*; 9 MONTHS $18,420

PREEDOM, BARRY M; *STUDY OF THE HADRONIC FORCE USING PI-MESONS (INT-8007981)*; 36 MONTHS $79,565

TENNESSEE

UNIVERSITY OF TENNESSEE AT CHATTANOOGA

EDWARDS, MAURICE; *IPA MOBILITY ASSIGNMENT (MAURICE EDWARDS) (INT-7921583 A01)*; 4 MONTHS $1,258

EDWARDS, MAURICE; *IPA MOBILITY ASSIGNMENT (MAURICE EDWARDS) (INT-8020538)*; 14 MONTHS $52,974

UNIVERSITY OF TENNESSEE AT KNOXVILLE

WHITE, JAMES L; *RHEOLOGICAL PROPERTIES OF GUAYULE, HEVEA AND SYNTHETIC POLYSOPRENES AND THEIR COMPOUNDS (INT-8006645)*; 24 MONTHS $31,515

TEXAS

SOUTHWEST RESEARCH INSTITUTE

BLACK, DAVID L; *SEVENTH INTER-AMERICAN CONFERENCE ON MATERIALS TECHNOLOGY (INT-8016923)*; 18 MONTHS $10,000

TEXAS A & M UNIVERSITY

IRGOLIC, KURT J; *THE SOLUTION CONFORMATIONS OF DIBENZO-P-DIOXINS AND THEIR NITROGEN, SULFUR, SELENIUM AND TELLURIUM ANALOGS (INT-7921544)*; 36 MONTHS $12,000

TEXAS TECH UNIVERSITY

SONG, PILL-SOON; *LIGHT-INDUCED MODIFICATION OF DNA WITH COUMARYL COMPOUNDS (INT-7918585)*; 24 MONTHS $6,080

UNIV OF TEXAS AT AUSTIN-MARINE SCIENCE INSTITUTE AT PORT ARANSAS

VAN BAALEN, CHASE; *ISOLATION AND CULTURE OF THE MARINE BLUE-GREEN ALGA, TRICHODESMIUM SP. (INT-7924394)*; 24 MONTHS $25,920

UNIV OF TEXAS AT AUSTIN

NACOZY, PAUL E; *A RESEARCH-ORIENTED BILATERAL WORKSHOP ON THE MOTION OF PLANETS AND SATELLITES (INT-8007644)*; 24 MONTHS $21,693

UNIV OF TEXAS AT DALLAS

TINSLEY, BRIAN A; *COOPERATIVE OBSERVATIONS OF OPTICAL EMISSIONS DUE TO ENERGETIC NEUTRAL ATOM PRECIPITATION (THE EQUATORIAL AURORA) (INT-7903438 A01)*; $10,500

UNIV OF TEXAS AT EL PASO

CLARK, KENNETH F; *DATA DISSEMINATION ON THE GEOLOGY AND MINERAL RESOURCES OF THE SIERRA MADRE OCCIDENTAL (INT-8024625*)*; 24 MONTHS $16,251

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

JAMESON, DAVID L; *COMPARATIVE POPULATION BIOLOGY OF ANURANS (INT-7910586)*; 24 MONTHS $84,481

UTAH

UNIVERSITY OF UTAH

BODILY, DAVID M; *A MICROSCOPIC INVESTIGATION OF MESOPHASE FORMATION DURING COAL HYDROGENATION AND CARBONIZATION OF THE RESIDUES (INT-7925453)*; 8 MONTHS $14,578

CLEMENS, C H; *STUDIES IN ALGEBRAIC GEOMETRY (INT-7927906)*; 24 MONTHS $9,300

PHILLIPS, PAUL J; *CHARACTERIZATION, MORPHOLOGY AND KINETICS OF GUAYULE RUBBER CRYSTALLIZATION (INT-8005146)*; 24 MONTHS $20,327

UTAH STATE UNIVERSITY

ARAVE, CLIVE W; *OPERANT CONDITIONING AND PRODUCTIVITY IN THE DIARY INDUSTRY (INT-8003177)*; 12 MONTHS $20,640

VERMONT

UNIVERSITY OF VERMONT

ANDERSON, RICHARD L; *HETEROJUNCTION SOLAR CELLS (INT-8004350)*; 36 MONTHS $38,864

VIRGINIA

NATIONAL TECHNICAL INFORMATION SERVICE

HARTMAN, JAMES J; *OPERATIONAL SUPPORT FOR NSF'S SPECIAL FOREIGN CURRENCY SCIENCE INFORMATION ACTIVITIES (INT-7104519 A15)*; 12 MONTHS $116,892

UNIVERSITY OF VIRGINIA

FREDRICK, LAURENCE W, AND IANNA, PHILIP A; *PARALLAXES AND PROPER MOTIONS OF SELECTED STARS (AST-7921542*)*; 12 MONTHS $9,740

VIRGINIA COMMONWEALTH UNIVERSITY

YOO, JANG H; *SCIENTISTS AND ENGINEERS IN ECONOMIC DEVELOPMENT--RESEARCH AND TEACHING IN KOREA (INT-8004198)*; 12 MONTHS $29,902

VIRGINIA POLYTECHNIC INSTITUTE

ACHE, HANS J; *APPLICATION OF THE POSITRON ANNIHILATION PROCESS TO THE STUDY OF CHEMICAL PROBLEMS: MICELLAR AND BIOMEMBRANE SYSTEMS (INT-7920206)*; 36 MONTHS $12,000

WASHINGTON

UNIVERSITY OF WASHINGTON

SEFERIS, JAMES C; *SYMPOSIUM ON THE ROLE OF THE POLYMERIC MATRIX ON THE PROCESSING AND STRUCTURAL PROPERTIES OF COMPOSITE MATERIALS: CAPRI, ITALY, JUNE 15-19, 1981 (INT-8017739)*; 12 MONTHS $22,250

WASHINGTON STATE UNIVERSITY

KONZAK, C F; *NUCLEO-CYTOPLASMIC HYBRIDS OF WHEAT AND THEIR UTILIZATION FOR WHEAT BREEDING (INT-7918593)*; 24 MONTHS $13,954

WAY, JAMES L; *LIBERATION OF CYANIDE BY ALKYLPHOSPHATE ANTAGONISTS (INT-7925442)*; 12 MONTHS $29,645

WISCONSIN

TRAVEL AWARD

HASTENRATH, STEFAN L; *SCIENTISTS AND ENGINEERS IN ECONOMIC DEVELOPMENT--TRAVEL TO KENYA (INT-8020954)*; 6 MONTHS $2,296

UNIVERSITY OF WISCONSIN-MADISON

WEAVER, JOHN H; *ELECTRONIC STRUCTURE STUDIES OF TITANIUM AND ZIRCONIUM HYDRIDES (INT-8001673)*; 12 MONTHS $18,620

UNIVERSITY OF WISCONSIN-MILWAUKEE

CHAN, SHIH H; *TRANSIENT FOULING HEAT TRANSFER AND SCALE REMOVAL IN GEOTHERMAL ENERGY SYSTEMS (INT-8005366)*; 24 MONTHS $13,896

SCIENTIFIC ORGANIZATIONS AND RESOURCES PROGRAM

CALIFORNIA

SRI INTERNATIONAL

FOSTER, RICHARD B; *SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES (COO-7818699 A03*)*; 16 MONTHS $53,793

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

KASPER, RAPHAEL; *PARTIAL SUPPORT OF THE INTERNATIONAL ENVIRONMENTAL PROGRAMS COMMITTEE (INT-7826169 A02*)*; 12 MONTHS $17,542

ROWAN, EDMUND C; *INTERNATIONAL SCIENTIFIC AND TECHNICAL INFORMATION PROGRAMS PROJECT (INT-7902931 A01)*; 12 MONTHS $102,500

CARTER, GESINA C; *PARTIAL PAYMENT OF DUES FROM THE USA FOR THE COMMITTEE ON DATA FOR SCIENCE AND TECHNOLOGY OF THE INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS (INT-7912479 A01)*; 12 MONTHS $10,350

ROWAN, EDMUND C; *INTERNATIONAL ORGANIZATIONS PROGRAM (INT-7922819)*; 12 MONTHS $834,400

TOLLERTON, HARRY M; *U.S. PARTICIPATION IN THE INTERNATIONAL INSTITUTE FOR APPLIED SYSTEMS ANALYSIS (INT-7923390)*; 12 MONTHS $2,726,200

PENNSYLVANIA

TEMPLE UNIVERSITY

LOSCIUTO, LEONARD A; *A SURVEY OF INTERNATIONAL PROGRAMS (INT-8021596*)*; 15 MONTHS $5,000

VIRGINIA

KAPPA SYSTEMS INC

DARNELL, WILLIAM G; *CONTINUATION AND IMPROVEMENT OF THE EXTERNAL PRODUCT EVALUATION SYSTEM (PRA-8007241*)*; 12 MONTHS $60,000

INTERNATIONAL TRAVEL

ALASKA

TRAVEL AWARD

REEBURGH, WILLIAM S; *TRAVEL TO ATTEND: CONFERENCE ON CARBON, NITROGEN AND SULFUR CYCLING IN SEDIMENTS; SONDERBORG, DENMARK, MAY 5-9, 1980 (INT-8003525)*; 6 MONTHS $1,260

ARIZONA

BROWN, ROBERT A; *TRAVEL TO ATTEND THE 23RD PLENARY MEETING OF THE COMMITTEE ON SPACE RESEARCH; BUDAPEST, HUNGARY - JUNE 2-14, 1980 (INT-8008407)*; 6 MONTHS $1,500

PEWE, TROY L; *TRAVEL TO ATTEND SYMPOSIUM ON QINGHAI-XIZANG (TIBET) PLATEAU; BEIJING, PEOPLE'S REPUBLIC OF CHINA - MAY 25-31 1980 (INT-8013759)*; 6 MONTHS $2,000

HADLEY, MAC E; *TRAVEL TO ATTEND THE XITH INTERNATIONAL PIGMENT CELL CONFERENCE; SENDAI, JAPAN; OCTOBER 13-17, 1980 (INT-8022625)*; 6 MONTHS $1,200

CALIFORNIA

LAWRENCE LIVERMORE LABORATORY

SHORE, BRUCE W; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 2ND INTERNATIONAL CONFERENCE ON MULTIPHOTON PROCESSES; BUDAPEST, HUNGARY APRIL 14-18, 1980 (INT-8009258)*; 6 MONTHS $6,000

STANFORD UNIVERSITY

MOONEY, HAROLD A; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN TWO CONFERENCES CONCCERNED WITH INTERNATIONAL MEDITERRANEAN CLIMATE ECOSYSTEMS: THESSALONIKI, GREECE & STELLENBOSCH, SOUTH AFRICA 9/13-25/80 (INT-8008428)*; 6 MONTHS $9,200

TRAVEL AWARD

BERAN, RUDOLF J; *TRAVEL TO ATTEND: MEETING ON APPLIED MATHEMATICAL STATISTICS; OBERWOLFACH, W GERMANY AND ANNUAL STATISTICAL CONFERENCE; LUNTEREN, NETHERLANDS; NOV 4-14, 1979 (INT-7921184)*; 6 MONTHS $700

PAGE, TERRY L; *TRAVEL TO ATTEND SYMPOSIUM ON PHOTOPERIODIC CONTROL OF REPRODUCTION; BRISTOL, ENGLAND - MARCH 30-APRIL 2, 1980 (INT-8000298)*; 6 MONTHS $700

CHEN, FRANCIS F; *TRAVEL TO ATTEND AN INTERNATIONAL CONFERENCE ON PLASMA PHYSICS; NAGOYA, JAPAN; APRIL 7-11, 1980 (INT-8002218)*; 6 MONTHS $1,007

AALTO, KENNETH R; *TRAVEL TO ATTEND INTERNATIONAL MEETING ON TRENCH AND FORE-ARC SEDIMENTATION IN MODERN AND SUBDUCTION ZONES; LONDON, ENGLAND - JUNE 23-25, 1980 (INT-8005222)*; 6 MONTHS $775

NEUSHUL, MICHAEL; *TRAVEL TO ATTEND THE 10TH INTERNATIONAL SEAWEED SYMPOSIUM; GOTHENBERG, SWEDEN - AUGUST 11-15, 1980 (INT-8008575)*; 7 MONTHS $955

CELEBI, MEHMET; *TRAVEL TO ATTEND THE 7TH WORLD CONFERENCE ON EARTHQUAKE ENGINEERING; ISTANBUL, TURKEY; SEPTEMBER 8-13, 1980 (INT-8009257)*; 6 MONTHS $1,500

BODENHEIMER, PETER H; *TRAVEL TO ATTEND THE INTERNATIONAL ASTRONOMICAL UNION SYMPOSIUM ON FUNDAMENTAL PROBLEMS IN THE THEORY STELLAR EVOLUTION IN KYOTO, JAPAN – JULY 21-25, 1980 (INT-8010894)*; 6 MONTHS $1,068

PLESSET, MILTON S; *TRAVEL TO ATTEND THE INTERNATIONAL ASSOC. FOR HYDRAULIC RESEARCH 10TH SYMPOSIUM FOR HYDRAULIC MACHINERY, EQUIPMENT AND CAVITATION; TOKYO, JAPAN; SEPT. 29 TO OCT. 3, 1980 (INT-8012905)*; 6 MONTHS $1,004

CRAIG, HARMON; *TRAVEL TO ATTEND SYMPOSIUM ON QINGHAI-XIZANG (TIBET) PLATEAU; BEIJING, PEOPLE'S REPUBLIC OF CHINA - MAY 25-31, 1980 (INT-8013761)*; 6 MONTHS $2,000

KNOPOFF, LEON; *TRAVEL TO ATTEND SYMPOSIUM ON QUINGHAI XIZANG (TIBET) PLATEAU; BEIJING; PEOPLE'S REPUBLIC OF CHINA MAY 25-31, 1980 (INT-8015996)*; 6 MONTHS $2,000

TENG, TA-LIANG; *TRAVEL TO ATTEND SYMPOSIUM ON QINGHAI-XIZANG (TIBET) PLATEAU; BEIJING, PEOPLE'S REPUBLIC OF CHINA MAY 25-31, 1980 (INT-8015997)*; 6 MONTHS $1,000

BORCHERDT, ROGER D; *TRAVEL TO ATTEND THE 7TH WORLD CONFERENCE ON EARTHQUAKE ENGINEERING; ISTANBUL, TURKEY; SEPTEMBER 8-13, 1980 (INT-8016491)*; 6 MONTHS $1,594

WITTRY, DAVID B; *THE NINTH INTERNATIONAL CONFERENCE ON X-RAY OPTICS AND MICROANALYSIS (COMBINED WITH THE SEVENTH EUROPEAN CONG. ON ELEC. MICROSCOPY) - HAGUE, NETHERLANDS; OCT. 24-29, 1980 (INT-8019676)*; 6 MONTHS $900

SHARPE, ROLAND L; *TRAVEL TO ATTEND THE 7TH WORLD CONFERENCE ON EARTHQUAKE ENGINEERING; ISTANBUL, TURKEY; & THE 8TH REGIONAL SEMINAR ON EARTHQUAKE ENGINEERING, VARNA, BULGARIA; SEPT. 8-28, 1980 (INT-8021661)*; 6 MONTHS $2,000

FENECH, HENRI; *TRAVEL TO ATTEND 6TH GAS-COOLRD FAST REACTOR HEAT TRANSFER SPECIALISTS MEETING; BERKELEY, U.K., SEPTEMBER 15-17, 1980 (INT-8023034)*; 6 MONTHS $599

UNIVERSITY OF CALIFORNIA, BERKELEY

HUFFAKER, CARL B; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 5TH INTERNATIONAL SYMPOSIUM ON BIOLOGICAL CONTROL OF WEEDS; BRISBANE, AUSTRALIA - JULY 22-29, 1980 (INT-7926131)*; 6 MONTHS $11,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

ORBACH, RAYMOND L; *GROUP TRAVEL GRANT FOR U.S. PARTICIPANTS IN INTERNATIONAL CONFERENCE ON PHYSICS IN ONE DIMENSION; FRIBOURG, SWITZERLAND, AUG 25-29, 1980 (INT-7921425)*; 10 MONTHS $10,000

COLORADO

TRAVEL AWARD

SIMONS, DARYL B; *TRAVEL TO ATTEND: INTERNATIONAL WORKSHOP ON ENGINEERING PROBLEMS IN THE MANAGEMENT OF GRAVEL-BED RIVERS; CAERSWS, ENGLAND; JUNE 23-28, 1980 (INT-7922111)*; 6 MONTHS $1,100

REITER, ELMAR R; *TRAVEL TO ATTEND SYMPOSIUM ON QINGHAI-XIZANG (TIBET) PLATEAU; BEIJING, PEOPLE'S REPULIC OF CHINA - MAY 25-31, 1980 (INT-8008408)*; 6 MONTHS $2,000

CASTOR, JOHN I; *TRAVEL TO ATTEND ADVANCED SCHOOL OF ASTRONOMY; ERICE, ITALY SEPTEMBER 3-12, 1980 (INT-8020729)*; 6 MONTHS $1,600

UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER

KEMPE, C H; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE THIRD INTERNATIONAL CONGRESS ON CHILD ABUSE AND NEGLECT; AMSTERDAM, THE NETHERLANDS; APRIL 21-25, 1981 (INT-8022128)*; 6 MONTHS $4,950

CONNECTICUT

ECONOMETRIC SOCIETY

GORDON, ROBERT J; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE FOURTH WORLD CONGRESS OF THE ECONOMETRIC SOCIETY; AIX-EN-PROVENCE, FRANCE - AUGUST 28 - SEPT. 2, 1980 (INT-7922117)*; 9 MONTHS $20,000

TRAVEL AWARD

HORVATH, CSABA G; *TRAVEL TO ATTEND: 4TH SYMPOSIUM ON ION EXCHANGE; BALATON, HUNGARY; MAY 27-30, 1980 (INT-8000438)*; 6 MONTHS $1,012

LOVELL, MICHAEL C; *TRAVEL TO ATTEND THE FIRST INTERNATIONAL SYMPOSIUM ON INVESTORIES; BUDAPEST, HUNGARY - SEPT. 1-5, 1980 (INT-8017614)*; 6 MONTHS $900

DYEN, ISIDORE; *TRAVEL TO ATTEND THE THIRD INTERNATIONAL CONFERENCE ON AUSTRONESIAN LINGUISTICS; DENPASAR, BALI, INDONESIA; JANUARY 19-24, 1981 (INT-8021089)*; 6 MONTHS $2,042

DELAWARE

PITTEL, STUART; *TRAVEL TO ATTEND INTERNATIONAL SYMPOSIUM ON INTERACTING BOSONS IN NUCLEAR PHYSICS; ERICE, ITALY JUNE 12-19, 1980 (INT-8016489)*; 6 MONTHS $809

DISTRICT OF COLUMBIA

AMERICAN CHEMICAL SOCIETY (ACS)

STURROCK, PETER E; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN HEYROVSKY MEMORIAL CONGRESS ON POLAROGRAPHY; PRAGUE, CZECHOSLOVAKIA; AUGUST 25-29, 1980 (INT-8000470)*; 6 MONTHS $6,500

AMERICAN GEOPHYSICAL UNION

SPILHAUS, A F; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE THIRD INTERNATIONAL SYMPOSIUM ON STOCHASTIC HYDRAULICS; TOKYO, JAPAN; AUGUST 5-7, 1980 (INT-8010901)*; 6 MONTHS $5,000

AMERICAN PSYCHOLOGICAL ASSOCIATION

PALLAK, MICHAEL S; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE XXII INTERNATIONAL CONGRESS OF PSYCHOLOGY; LEIPZIG, GERMAN DEMOCRATIC REPUBLIC - JULY 6-12, 1980 (INT-7923784)*; 9 MONTHS $12,500

ASSOCIATION OF AMERICAN GEOGRAPHERS

PETRIE, WILLIAM L; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE XXIV INTL. GEOGRAPHICAL CONGRESS AND THE XV GENERAL AS-*

SEMBLY OF THE INTL. GEOGRAPHICAL UNION; TOKYO, JAPAN - AUG/SEPT, 1980 (INT-7924325); 10 MONTHS $16,000

COURTESY TRAVEL SERVICE

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (INT-7726877 A09*);* 1 MONTHS $20,000

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (INT-8018782*);* 12 MONTHS $66,000

TRAVEL AWARD

TEICH, ALBERT H; *TRAVEL TO ATTEND 4TH INTERNATIONAL CONFERENCE ON MANAGEMENT OF RESEARCH, DEVELOPMENT AND EDUCATION; WARSAW, POLAND SEPT 16-18, 1980 (INT-8008353);* 6 MONTHS $1,044

FLORIDA

NOVA UNIVERSITY-OCEAN SCIENCE CENTER

WITTE, JANET M; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN A MEETING OF THE SCIENTIFIC COMMITTEE ON OCEANIC RESEARCH (SCOR) WORKING GROUP 47 - INDIAN OCEAN PANEL; WORMLEY, ENGLAND - JUNE 1980 (INT-8008417);* 6 MONTHS $7,640

TRAVEL AWARD

DUFFY, J W; *TRAVEL TO ATTEND: 5TH INTERNATIONAL CONFERENCE ON SPECTRAL LINE SHAPES; BERLIN, WEST GERMANY; JULY 7-11, 1980 (INT-8008411);* 6 MONTHS $800

GEORGIA

BEUCHAT, LARRY R; *TRAVEL TO ATTEND: 11TH INTERNATIONAL SYMPOSIUM ON PSYCHROPHILIC MICROORGANISMS IN SPOILAGE AND PATHOGENICITY; AALBORG, DENMARK; JULY 6-11, 1980 (INT-8015999);* 6 MONTHS $674

IDAHO

JACOBSEN, RICHARD T; *TRAVEL TO ATTEND 2ND INTERNATIONAL WORKSHOP ON EQUATIONS OF STATES; BOCHUM, WEST GERMANY; AUGUST 4-15, 1980 (INT-8016009);* 6 MONTHS $1,004

STEWART, RICHARD B; *TRAVEL TO ATTEND THE 2ND INTERNATIONAL WORKSHOP ON EQUATIONS OF STATE; BOCHUM, GERMANY; AUGUST 4-15, 1980 (INT-8021599);* 6 MONTHS $955

ILLINOIS

CATALYSIS SOCIETY

HAENSEL, VLADIMIR; *GROUP TRAVEL GRANT FOR U. S. PARTICIPANTS IN 7TH INTERNATIONAL CONGRESS ON CATALYSIS; TOKYO, JAPAN; JUNE 30 JULY 4, 1980 (INT-7920951);* 9 MONTHS $16,000

TRAVEL AWARD

BROUTMAN, LAWRENCE J; *TRAVEL TO ATTEND: 2ND INTERNATIONAL CONFERENCE ON POLYMER SCIENCE AND ENGINEERING; WARSAW, POLAND; NOV 26-28, 1979 (INT-7911189);* 6 MONTHS $943

TRAVERS, KENNETH J; *TRAVEL TO ATTEND THE INTERNATIONAL CONFERENCE ON COMPARATIVE STUDIES OF MATHEMATICS CIRRICULA; BIELEFELD, FEDERAL REPUBLIC OF GERMANY - JANUARY 7 - 11, 1980 (INT-8000427);* 6 MONTHS $675

CHATO, JOHN C; *TRAVEL TO ATTEND 2ND INTERNATIONAL CONFERENCE ON MECHANICS IN MEDICINE AND BIOLOGY; OSAKA, JAPAN - JUNE 5-7, 1980 (INT-8008379);* 6 MONTHS $1,950

MURA, TOSHIO; *TRAVEL TO ATTEND INTERNATIONAL SYMPOSIUM ON DEFECTS AND FRACTURE; KAZIMIERZ, POLAND; OCT. 13-17, 1980 (INT-8015505);* 6 MONTHS $1,000

LIN, Y K; *TRAVEL TO ATTEND SPECIALITY CONFERENCE ON PROBABILISTIC SAFETY OF STRUCTURES; PARIS, FRANCE; SEPTEMBER 8-9, 1980 (INT-8016495);* 6 MONTHS $1,100

GROSSMAN, SEBASTIAN P; *TRAVEL TO ATTEND THE INTERNATIONAL SYMPOSIUM ON THE BODY WEIGHT REGULATORY SYSTEM; CAPRI, ITALY; OCTOBER 12-25, 1980 (INT-8019673);* 6 MONTHS $1,077

ELITZUR, MOSHE; *TRAVEL TO ATTEND ADVANCED SCHOOL OF ASTRONOMY; ERICE, ITALY SEPTEMBER 3-13, 1980 (INT-8020734);* 6 MONTHS $1,150

SILVER, MARSHALL L; *TRAVEL TO ATTEND THE 7TH WORLD CONFERENCE ON EARTHQUAKE ENGINEERING; ISTANBUL, TURKEY; SEPTEMBER 8-13, 1980 (INT-8021662);* 6 MONTHS $1,438

SOZEN, METE A; *TRAVEL TO ATTEND THE 7TH WORLD CONFERENCE ON EARTHQUAKE ENGINEERING; ISTANBUL, TURKEY; SEPTEMBER 8-13, 1980 (INT-8021663);* 6 MONTHS $844

DUNN, FLOYD; *TRAVEL TO ATTEND THE INTERNATIONAL SYMPOSIUM ON ULTRASOUND INTERACTION; REINHARDSBRUNN, GERMANY; NOVEMBER 10-14, 1980 (INT-8021672);* 6 MONTHS $900

UNIVERSITY OF CHICAGO

FRITZSCHE, HELLMUT; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 15TH INTL CONFERENCE ON THE PHYSICS OF SEMICONDUCTORS; KYOTO, JAPAN SEPT 1-5, 1980 (INT-8008603);* 6 MONTHS $9,000

UNIVERSITY OF ILLINOIS AT URBANA

FAULKNER, LARRY R; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE FARADAY DISCUSSION ON PHOTOELECTROCHEMISTRY; OXFORD, ENGLAND - SEPTEMBER 8-10, 1980 (INT-8020694);* 6 MONTHS $9,100

INDIANA

TRAVEL AWARD

DURISEN, RICHARD H; *TRAVEL TO ATTEND INTERNATIONAL ASTRONOMICAL UNION SYMPOSIUM ON FUNDAMENTAL PROBLEMS IN THE THEORY OF STELLAR EVOLUTION, KYOTO, JAPAN, JULY 22-25, 1980 (INT-8015502);* 6 MONTHS $1,413

KANSAS

JEROME, NORGE W; *TRAVEL TO ATTEND THE FOURTH INTERNATIONAL FOOD CONFERENCE; STAINZ, AUSTRIA; AUGUST 24-30, 1980 (INT-8021597);* 6 MONTHS $1,175

KENTUCKY

KIELKOPF, JOHN F; *TRAVEL TO ATTEND THE 5TH INTERNATIONAL CONFERENCE ON SPECTRAL LINE SHAPES; WEST BERLIN, JULY 7-11, 1980 (INT-8013754);* 6 MONTHS $1,060

MARYLAND

AMERICAN PHYSIOLOGICAL SOCIETY

REYNOLDS, ORR E; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 28TH INTERNATIONAL CONGRESS OF PHYSIOLOGICAL SCIENCES; BUDAPEST, HUNGARY JULY 13 - 19, 1980 (INT-7921601);* 9 MONTHS $15,000

BIOPHYSICAL SOCIETY

PEACHEY, LEE D; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE VII INTERNATIONAL BIOPHYSICS CONGRESS; MEXICO CITY, MEXICO; AUGUST 23-29, 1981 (INT-8019678);* 12 MONTHS $10,000

ENTOMOLOGICAL SOCIETY OF AMERICA

HANSEN, DARRYL; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 16TH INTERNATIONAL CONGRESS OF ENTOMOLOGY, KYOTO, JAPAN AUGUST 3-9, 1980 (INT-7915184);* 10 MONTHS $18,000

INSTITUTE OF ELECTRICAL & ELECTRONIC ENGRS INC-IEEE SYSTEMS MAN AND CYBERNETICS SOCIETY

KANAL, LAVEEN N; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN A WORKING CONFERENCE ON PATTERN RECOGNITION IN PRACTICE; AMSTERDAM, THE NETHERLANDS - MAY 21-23, 1980 (INT-8008424);* 6 MONTHS $2,100

JOHNS HOPKINS UNIVERSITY

HEINBOKEL, JOHN F; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE NATO ADVANCED RESEARCH INSTITUTE ON THE ECOLOGY OF MARINE PLANKTONIC PROTOZOA; VILLEFRANCHE-SUR-MER, FRANCE-MAY 10-23, 1981 (INT-8022892);* 12 MONTHS $10,000

TRAVEL AWARD

JAGGER, JOHN; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 8TH INTERNATIONAL PHOTOBIOLOGY CONGRESS; STRASBOURG, FRANCE; JULY 20-25, 1980 (INT-7922112);* 9 MONTHS $10,000

FEY, JAMES T; *TRAVEL TO ATTEND THE INTERNATIONAL CONFERENCE ON COMPARATIVE STUDIES OF MATHEMATICS CIRRICULA; BIELEFELD, FEDERAL REPUBLIC OF GERMANY - JANUARY 7 - 11, 1980 (INT-8000426);* 6 MONTHS $494

NADDOR, ELIEZER; *TRAVEL TO ATTEND THE FIRST INTERNATIONAL SYMPOSIUM ON INVENTORIES; BUDAPEST, HUNGARY - SEPTEMBER 1-5, 1980 (INT-8010696);* 6 MONTHS $796

TRUESDELL, CLIFFORD A; *TRAVEL TO ATTEND 8TH INTERNATIONAL CONGRESS OF RHEOLOGY; NAPLES, ITALY; SEPT. 1-5, 1980 (INT-8016178);* 6 MONTHS $1,029

SKALNY, JAN P; *TRAVEL TO ATTEND A CONFERENCE ON THE EFFECTS OF ALKALIS IN CEMENT AND CONCRETE, CAPETOWN, SOUTH AFRICA; MARCH 30 APRIL 3, 1981 (INT-8019674);* 9 MONTHS $700

MAIER, ROBERT J; *TRAVEL TO ATTEND THE FOURTH INTERNATIONAL SYMPOSIUM ON NITROGEN FIXATION; CANBERRA, AUSTRALIA; DECEMBER 1-5, 1980 (INT-8019823);* 6 MONTHS $1,600

REISER, MARTIN P; *TRAVEL TO ATTEND THE 4TH INTERNATIONAL SYMPOSIUM ON COLLECTIVE METHODS OF ACCELERATION; DUBNA, U.S.S.R.; SEPTEMBER 9-12, 1980 (INT-8021501);* 6 MONTHS $1,350

UNIVERSITY OF MARYLAND, COLLEGE PARK

BRILL, DIETER R; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 9TH INTL. CONGRESS ON GRAVITATION AND GENERAL RELATIVITY (GR9); JENA, GERMAN DEMOCRATIC REPUBLIC - JULY 14-19, 1980 (INT-8001018);* 9 MONTHS $17,000

MASSACHUSETTS

AMERICAN METEOROLOGICAL SOCIETY

SPENGLER, KENNETH C; *GROUP TRAVEL FOR US PART IN 18TH INTL CONF ON CLOUD PHYSICS JULY 15-19,1980 & 23RD WORLD METEOROLOGICAL ORG CONF ON WEATHER MODIFICATION, JULY 21-25,1980; CLERMONT-FERRAND, FRA (INT-8015753);* 6 MONTHS $25,000

BRANDEIS UNIVERSITY

AUSLANDER, MAURICE; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE THIRD INTERNATIONAL CONFERENCE ON THE REPRESENTATIONS OF ALGEBRAS; PUEBLA, MEXICO - AUGUST 4-16, 1980 (INT-8003122);* 6 MONTHS $9,500

ENDOCRINE SOCIETY

CHRISTY, NICHOLAS P; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 6TH INTERNATIONAL CONGRESS OF ENDOCRINOLOGY; MEL-*

BOURNE, AUSTRALIA; FEBRUARY 10-16, 1980 (INT-7921596); 6 MONTHS $15,000

TRAVEL AWARD

WHITMAN, ROBERT V; *TRAVEL TO ATTEND THE SIXTH PANAMERICAN CONFERENCE ON SOIL MECHANICS AND FOUNDATION ENGINEERING; LIMA, PERU - DECEMBER 2-7, 1979 (INT-7921191);* 6 MONTHS $865

MOLNAR, PETER; *TRAVEL TO ATTEND SYMPOSIUM ON QINGHAI-XIZANG (TIBET) PLATEAU; BEIJING, PEOPLE'S REPUBLIC OF CHINA; MAY 25-31, 1980 (INT-8013760);* 6 MONTHS $2,000

HABER-SCHAIM, URI; *TRAVEL TO ATTEND INTERNATIONAL CONFERENCE ON EDUCATION FOR PHYSICS TEACHING, TRIESTE, ITALY, SEPT. 1-6, 1980 (INT-8013764);* 6 MONTHS $1,058

TOKSOZ, M NAFI; *TRAVEL TO ATTEND SYMPOSIUM ON QINGHAI-XIZANG (TIBET) PLATEAU; BEIJING, PEOPLE'S REPUBLIC OF CHINA; MAY 25-31, 1980 (INT-8015998);* 6 MONTHS $2,000

DIETZ, ALBERT G; *TRAVEL TO ATTEND AN INTERNATIONAL CONFERENCE ON PLASTICS IN MATERIAL AND STRUCTURAL ENGINEERING; PRAGUE, CZECHOSLOVAKIA; JUNE 23-25, 1981 (INT-8021486);* 10 MONTHS $910

MICHIGAN

MICHIGAN STATE UNIVERSITY

DUKELOW, W R; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 8TH CONGRESS OF THE INTL. PRIMATOLOGICAL SOCIETY; FLORENCE ITALY - JULY 7-12, 1980 (INT-8002299);* 6 MONTHS $13,800

WAGNER, PETER J; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE EIGHTH INTL. UNION OF PURE & APPLIED CHEMISTRY (IUPAC) SYMPOSIUM ON PHOTOCHEMISTRY; SEEFELD, AUSTRIA - JULY 13-19, 1980 (INT-8008413);* 6 MONTHS $14,000

TRAVEL AWARD

SZMANT, HERMAN H; *TRAVEL TO ATTEND: 11TH NATIONAL MEETING OF THE CHILEAN CHEMICAL SOCIETY; CONCEPCION, CHILE; DECEMBER 3-6, 1979 (INT-7915121);* 6 MONTHS $1,100

ATREYA, SUSHIL K; *TRAVEL TO ATTEND: THE 33RD INTERNATIONAL MEETING OF THE COMMITTEE ON SPACE RESEARCH; BUDAPEST, HUNGARY - JUNE 1980 (INT-7926066);* 2 MONTHS $1,147

ANDERSLAND, ORLANDO B; *TRAVEL TO ATTEND: 2ND INTERNATIONAL SYMPOSIUM ON GROUND FREEZING; TRONDHEIM, NORWAY; JUNE 24-26, 1980 (INT-8005887);* 6 MONTHS $1,182

HORN, B R; *TRAVEL TO ATTEND: 2ND EUROPEAN CONFERENCE ON ENVIRONMENTAL EDUCATION; BERNE, SWITZERLAND; MARCH 28 - APRIL 2, 1980 (INT-8008598);* 3 MONTHS $944

STEDMAN, DONALD H; *TRAVEL TO ATTEND THE 2ND INTERNATIONAL CONFERENCE ON NICKEL TOXICOLOGY; SWANSEA, WALES; SEPTEMBER 3-5, 1980 (INT-8013750);* 6 MONTHS $1,000

RAMM, A G; *TRAVEL TO ATTEND AN INTERNATIONAL MEETING ON SCATTERING THEORY; OBERWOLFACH, WEST GERMANY - AUGUST 3-9, 1980 (INT-8014903);* 6 MONTHS $974

ROSKAMP, KARL W; *TRAVEL TO ATTEND AN INTERNATIONAL SYMPOSIUM ON 'ANATOMY OF GOVERNMENT PERFORMANCE' DIESSEN, WEST GERMANY JULY 22-25, 1980 (INT-8014492);* 6 MONTHS $726

FARRAND, WILLIAM R; *TRAVEL TO ATTEND THE INTERNATIONAL CONFERENCE ON THE TRANSITION FROM LOWER TO MIDDLE PALEOLITHIC AND THE ORIGIN OF HOMO-SAPIENS; HAIFA, ISRAEL; OCTOBER 6-14, 1980 (INT-8021492);* 6 MONTHS $1,350

UNIVERSITY OF MICHIGAN

KORNBLUM, SYLVAN; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 9TH INTERNATIONAL SYMPOSIUM ON ATTENTION AND PERFORMANCE; CAMBRIDGE, ENGLAND; JULY 14-18, 1980 (INT-8000296);* 6 MONTHS $7,000

WAYNE STATE UNIVERSITY

KIRSCHNER, STANLEY; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE XXI INTERNATIONAL CONFERENCE ON COORDINATION CHEMISTRY; TOULOUSE, FRANCE JULY 7-11, 1980 (INT-8002030);* 10 MONTHS $15,000

MINNESOTA

TRAVEL AWARD

SCHAUMANN, ROLF; *TRAVEL TO ATTEND EUROPEAN CONFERENCE ON CIRCUIT THEORY AND DESIGN; WARSAW, POLAND; SEPT. 2-5, 1980 (INT-8014183);* 6 MONTHS $942

MARSHAK, MARVIN L; *TRAVEL TO ATTEND INTERNATIONAL SYMPOSIUM ON HIGH ENERGY PHYSICS WITH POLARIZED BEAMS AND POLARIZED TARGETS, LAUSANNE, SWITZERLAND, SEPT. 25-OCT. 1, 1980 (INT-8020364);* 6 MONTHS $980

MISSOURI

BRUGGER, ROBERT M; *TRAVEL TO ATTEND A CONFERENCE ON HIGH RESOLUTION NEUTRON SPECTROSCOPY; OXFORD, ENGLAND; MARCH 31 - APRIL 1, 1980 (INT-8002295);* 6 MONTHS $950

PLUMMER, PATRICIA L; *TRAVEL TO ATTEND INTERNATIONAL CONFERENCE ON HORIZONS IN HYDROGEN BOND RESEARCH; SANGASABY, SWEDEN; AUGUST 17-23, 1980 (INT-8020400);* 6 MONTHS $1,000

UNIVERSITY OF MISSOURI, COLUMBIA

MEESE, JON M; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THIRD INTERNATIONAL CONFERENCE ON NEUTRON TRANSMUTATION DOPING IN SEMICONDUCTORS, COPENHAGEN, DENMARK, AUGUST 27-29, 1980 (INT-8010804);* 6 MONTHS $5,000

NEBRASKA

TRAVEL AWARD

WILKINS, CHARLES L; *TRAVEL TO ATTEND THE 5TH INTERNATIONAL CONFERENCE ON COMPUTERS IN CHEMICAL RESEARCH & EDUCATION; TOYOHASHI, JAPAN; OCTOBER 15-17, 1980 (INT-8020341);* 6 MONTHS $1,600

BOELLSTORFF, JOHN; *TRAVEL TO ATTEND INTERNATIONAL WORKSHOP ON FISSION-TRACK DATING; PISA, ITALY SEPTEMBER 10-12, 1980 (INT-8020725);* 6 MONTHS $750

NEW JERSEY

AMERICAN FEDERATION OF INFO PROCESSING SOC

AUSTING, RICHARD H; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 7TH CONGRESS OF THE INTERNATIONAL FEDERATION FOR INFORMATION PROCESSING; KYOTO, JAPAN AND MELBOURNE, AUSTRALIA; OCTOBER 6-17, 1980 (INT-7926255);* 12 MONTHS $27,800

TRAVEL AWARD

KAMINOW, IVAN P; *TRAVEL TO ATTEND AN INTERNATIONAL CONFERENCE ON LASERS; SHANGHAI, PEOPLE'S REPUBLIC OF CHINA - MAY 5-8, 1980 (INT-8008374);* 6 MONTHS $1,000

DRAINE, BRUCE T; *TRAVEL TO ATTEND ADVANCED SCHOOL OF ASTRONOMY; ERICE, ITALY SEPT. 3-12, 1980 (INT-8008409);* 6 MONTHS $850

BROWN, LOWELL S; *TRAVEL TO ATTEND INTERNATIONAL WORKSHOP ON GAUGE THEORIES, CRETE, GREECE, JUNE 29-JULY 9, 1980 (INT-8020375);* 6 MONTHS $1,450

NEW MEXICO

HAYENGA, CRAIG O; *TRAVEL TO ATTEND 6TH INTERNATIONAL CONFERENCE ON ATMOSPHERIC ELECTRICITY; MANCHESTER, ENGLAND - JULY 29 AUGUST 1, 1980 (INT-8010895);* 6 MONTHS $825

NEW YORK

AMERICAN CRYSTALLOGRAPHIC ASSOCIATION

BRUMBERGER, HARRY; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 5TH INTERNATIONAL CONFERENCE ON SMALL-ANGLE SCATTERING; WEST BERLIN OCTOBER 6-10, 1980 (INT-8001017);* 6 MONTHS $6,000

AMERICAN SOCIETY FOR CELL BIOLOGY

SHELTON, EMMA; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE SECOND INTERNATIONAL CONGRESS FOR CELL BIOLOGY; BERLIN, WEST GERMANY AUGUST 31 - SEPTEMBER 5, 1980 (INT-7921424);* 9 MONTHS $15,000

INSTITUTE OF ELECTRICAL & ELECTRONIC ENGRS INC

HOPKINS, ALBERT L; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 10TH INTL. SYMPOSIUM ON FAULT-TOLERANT COMPUTING; KYOTO, JAPAN OCTOBER 1-3, 1980 (INT-8002900);* 9 MONTHS $5,250

MATHEMATICAL PROGRAMMING SOCIETY

DANTZIG, GEORGE B; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN A WORKSHOP ON LARGE-SCALE LINEAR PROGRAMMING; LAXENBURG, AUSTRIA - JUNE 6-10, 1980 (INT-8008455);* 6 MONTHS $4,000

SYRACUSE UNIVERSITY

MCGILL, MICHAEL J; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE THIRD INTERNATIONAL CONFERENCE ON RESEARCH & DEVELOPMENT IN INFORMATON RETRIEVAL; CAMBRIDGE, ENGLAND - JUNE 25-27, 1980 (INT-7922113);* 6 MONTHS $10,000

TRAVEL AWARD

LEIBOVICH, SIDNEY; *TRAVEL TO ATTEND: CONFERENCE ON APPLICATION OF PHYSICS IN CONTROLLING OIL POLLUTION EFFECTS IN MARINE ENVIRONMENT; GDANSK, POLAND; NOV 12-16, 1979 (INT-7921180);* 6 MONTHS $830

REIN, ROBERT; *TRAVEL TO ATTEND: INTERNATIONAL SYMPOSIUM ON QUANTUMCHEMICAL ASPECTS OF BIOMOLECULES - THEIR STRUCTURES AND FUNCTIONS; KYOTO, JAPAN; OCTOBER 29 - NOVEMBER 6, 1979 (INT-7921185);* 6 MONTHS $1,410

WRIGHT, ROGER N; *TRAVEL TO ATTEND: CONFERENCE ON METALLURGY AND METALS PROCESSING; KRAKOW, POLAND; OCTOBER 18-21, 1979 (INT-7924050);* 6 MONTHS $836

DAINTY, JOHN C; *TRAVEL TO ATTEND: NEW ZEALAND NATIONAL PHYSICS CONFERENCE; CHRISTCHURCH, NEW ZEALAND, AUGUST 25-28, 1980 (INT-7926063);* 9 MONTHS $1,752

PESKIN, CHARLES; *TRAVEL TO ATTEND: 4TH INTERNATIONAL SYMPOSIUM ON COMPUTING METHODS IN ENGINEERING AND APPLIED SCIENCES; VERSAILLES, FRANCE; DECEMBER 10-14, 1979 (INT-8000561);* 6 MONTHS $413

SLEMROD, MARSHALL; *TRAVEL TO ATTEND MEETING ON MATHEMATICAL SYSTEMS THEORY; COVENTRY, ENGLAND; JULY 6-12, 1980 (INT-8006819);* 6 MONTHS $835

SOONG, TSU T; *TRAVEL TO ATTEND THE 22ND INTERNATIONAL SOLID MECHANICS CONFERENCE, WARSAW, POLAND - SEPTEMBER 2-9, 1980 (INT-8008366);* 6 MONTHS $896

BASU, ASISH R; *TRAVEL TO ATTEND SYMPOSIUM ON QINGHAI-XIZANG (TIBET) PLATEAU; BEIJING, PEOPLE'S REPUBLIC OF CHINA - MAY 25-31, 1980 (INT-8006410);* 6 MONTHS $2,000

HELFAND, DAVID J; *TRAVEL TO ATTEND INTERNATIONAL ASTRONOMICAL UNION SYMPOSIUM ON PULSARS; BONN, WEST GERMANY, AUG. 25-30, 1980 (INT-8013752)*; 6 MONTHS $834

INGRAFFEA, ANTHONY R; *TRAVEL TO ATTEND INTERNATIONAL SYMPOSIUM ON ABSORBED SPECIFIC ENERGY; BUDAPEST, HUNGARY; SEPT. 17-19, 1980 (INT-8013765)*; 6 MONTHS $1,340

WANG, LEON R; *TRAVEL TO ATTEND THE 7TH WORLD CONFERENCE ON EARTHQUAKE ENGINEERING; INSTANBUL, TURKEY; SEPTEMBER 8-13, 1980 (INT-8015756)*; 6 MONTHS $1,250

BALAS, MARK J; *TRAVEL TO ATTEND INTERNATIONAL MEETING ON MATHEMATICAL SYSTEMS THEORY; COVENTRY, ENGLAND - JULY 6-12, 1980 (INT-8020731)*; 6 MONTHS $978

FVAN-IWANOWSKI , ROSS M; *TRAVEL TO ATTEND THE INTERNATIONAL CONFERENCE ON NONLINEAR AND RHEOLINEAR VIBRATORY SYSTEMS; OBERWOLFACH, WEST GERMANY; SEPTEMBER 28- OCTOBER 4, 1980 (INT-8021598)*; 6 MONTHS $952

GOVE, HARRY E; *TRAVEL TO ATTEND THE 2ND INTERNATIONAL CONFERENCE ON LOW LEVEL COUNTING; POPRAD-TATRY, CZECHOSLOVAKIA; NOVEMBER 24-28, 1980 (INT-8021665)*; 6 MONTHS $1,000

UNITED ENGINEERING TRUSTEES INC

COLE, SANDFORD S; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE 6TH INTERNATIONAL ENZYME ENGINEERING CONFERENCE; KASHIKOJIMA, JAPAN SEPTEMBER 20-25, 1981 (INT-8015991)*; 15 MONTHS $13,608

NORTH DAKOTA

TRAVEL AWARD

NIELSEN, FORREST H; *TRAVEL TO ATTEND THE THIRD INTERNATIONAL TRACE ELEMENT SYMPOSIUM; JENA, EAST GERMANY - JULY 8-10, 1980 (INT-8008392)*; 6 MONTHS $650

OHIO

OHIO STATE UNIVERSITY

RAPP, ROBERT A; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE THIRD INTL MEETING ON SOLID ELECTROLYTES-SOLID STATE IONICS AND GALVANIC CELLS; TOKYO, JAPAN - SEPT 15-19, 1980 (INT-8009259)*; 6 MONTHS $3,300

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

SIBLEY, WILLIAM A; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE NINTH INTERNATIONAL CONFERENCE ON DEFECTS IN INSULATING CRYSTALS; RIGA, LATVIA - MAY 18-23, 1981 (INT-8022190)*; 12 MONTHS $5,400

OREGON

TRAVEL AWARD

MORAVCSIK, MICHAEL J; *TRAVEL TO ATTEND: SYMPOSIUM ON THEORY OF KNOWLEDGE AND SCIENCE POLICY; GHENT, BELGIUM; DEC 13-16, 1979 (INT-7923558)*; 6 MONTHS $1,186

HWA, RUDOLPH C; *TRAVEL TO ATTEND: 11TH INTERNATIONAL SYMPOSIUM ON MULTIPARTICLE DYNAMICS; BRUGES, BELGIUM; JUNE 23-27, 1980 (INT-8008391)*; 6 MONTHS $1,213

SCHRECK, CARL B; *TRAVEL TO ATTEND AN INTERNATIONAL SYMPOSIUM ON STRESS BIOLOGY IN FISH; NORWICH, ENGLAND - SEPTEMBER 9-12, 1980 (INT-8009256)*; 6 MONTHS $1,189

MORITA, RICHARD Y; *TRAVEL TO ATTEND THE 11TH INTERNATIONAL SYMPOSIUM ON PSYCHROTROPHIC MICROORGANISMS IN SPOILAGE AND PATHOGENICITY; ROSKILDE, DENMARK; JULY 6 - 11, 1980 (INT-8010630)*; 6 MONTHS $1,295

PENNSYLVANIA

MINERALOGICAL SOCIETY OF AMERICA

SPILHAUS, A F; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE XIITH GENERAL MEETING OF THE INTL MINERALOGICAL ASSOCIATION; ORLEANS, FRANCE - JULY 4-8, 1980 (INT-8008367)*; 6 MONTHS $13,000

TRAVEL AWARD

BIRKS, NEIL; *TRAVEL TO ATTEND 9TH INTERNATIONAL SYMPOSIUM ON THE REACTIVITY OF SOLIDS; KRAKOW, POLAND; SEPT. 1-7, 1980 (INT-8008363)*; 6 MONTHS $500

LIM, TECK KAH; *TRAVEL TO ATTEND AN INTERNATIONAL MEETING ON SPIN POLARIZED QUANTUM SYSTEMS; AUSSOIS, FRANCE - APRIL 21-26, 1980 (INT-8008406)*; 6 MONTHS $817

UNIVERSITY OF PITTSBURGH

HOLZNER, BURKART; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN A CONFERENCE ON THE UTILIZATION OF SOCIAL SCIENCE RESEARCH; VIENNA, AUSTRIAJUNE 18-20,1980 (INT-8000897)*; 6 MONTHS $2,000

RHODE ISLAND

TRAVEL AWARD

HAIRSTON, NELSON G; *TRAVEL TO ATTEND: INTERNATIONAL SYMPOSIUM ON ATHALASSIC (INLAND) SALT LAKES; ADELAIDE, AUSTRALIA; OCT 23-26, 1979 (INT-7922116)*; 6 MONTHS $900

SOUTH DAKOTA

RURAL SOCIOLOGICAL SOCIETY

CAPENER, HAROLD R; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 5TH WORLD CONGRESS OF THE INTL. RURAL SOCIOLOGICAL ASSOCIATION; MEXICO CITY, MEXICO - AUGUST 7-12, 1980 (INT-8006818)*; 6 MONTHS $1,000

TENNESSEE

EAST TENNESSEE STATE UNIVERSITY

RASCH, ELLEN M; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE VITH INTERNATIONAL CONGRESS OF HISTOCHEMISTRY AND CYTOCHEMISTRY; BRIGHTON, ENGLAND - AUGUST 17-22, 1980 (INT-8000428)*; 6 MONTHS $3,000

TRAVEL AWARD

AIKEN, ROBERT M; *TRAVEL TO ATTEND: CONFERENCE ON MICROCOMPUTERS AND SECONDARY EDUCATION; PARIS FRANCE - APRIL 15-18, 1980 (INT-8006823)*; 6 MONTHS $1,144

TEXAS

AMERICAN ASSN STRATIGRAPHIC PALYNOLOGISTS INC

CANRIGHT, JAMES E; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE INTERNATIONAL PALYNOLOGICAL CONFERENCE; CAMBRIDGE, ENGLAND - JUNE 29 JULY 6, 1980 (INT-8008418)*; 6 MONTHS $7,500

SOUTHERN METHODIST UNIVERSITY

WENDORF, FRED; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN A CONFERENCE ON THE ORIGINS AND EARLY DEVELOPMENT OF FOOD-PRODUCING CULTURES IN NORTHEASTERN AFRICA IN POZNAN, POLAND, SEPTEMBER 1980 (INT-7927314)*; 6 MONTHS $5,000

TRAVEL AWARD

HIMMELBLAU, DAVID M; *TRAVEL TO ATTEND THE 13TH MEETING OF THE WORKING GROUP ON ROUTINE CALCULATIONS AND THE USE OF COMPUTER IN CHEMICAL ENGINEERING; HEVIZ, HUNGARY; SEPT. 3-5, 1980 (INT-8000431)*; 9 MONTHS $1,383

SZEBEHELY, VICTOR; *TRAVEL TO ATTEND THE 23RD PLENARY MEETING OF THE COMMITTEE ON SPACE RESEARCH; BUDAPEST, HUNGARY - JUNE 9-14, 1980 (INT-8009934)*; 6 MONTHS $1,450

WHEELER, MARY F; *TRAVEL TO ATTEND AN INTERNATIONAL CONFERENCE ON FINITE ELEMENTS; OBERWOLFACH, WEST GERMANY - AUGUST 24-30, 1980 (INT-8015992)*; 6 MONTHS $640

WALPER, JACK L; *TRAVEL TO ATTEND 9TH CARIBBEAN GEOLOGICAL CONFERENCE, SANTO DOMINGO, DOMINICAN REPUBLIC, AUGUST 15-26, 1980 (INT-8020367)*; 6 MONTHS $539

WILLENBROCK, F K; *TRAVEL TO ATTEND INTERNATIONAL CONFERENCE ON DELIVERY MECHANISMS FOR ENGINEERING AND TECHNOLOGICAL INFORMATION; BUDAPEST, HUNGARY; NOVEMBER 3-5, 1980 (INT-8020730)*; 6 MONTHS $1,312

VIRGINIA

AMERICAN GEOLOGICAL INSTITUTE

UNKLESBAY, A G; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 26TH INTERNATIONAL GEOLOGICAL CONGRESS; PARIS, FRANCE - JULY 7 - 17, 1980 (INT-7921181)*; 9 MONTHS $17,000

TRAVEL AWARD

GLASSER, WOLFGANG G; *TRAVEL TO ATTEND AN INTERNATIONAL SYMPOSIUM ON THE STRUCTURE AND REACTIVITY OF LIGNIN; HELSINKI, FINLAND - JUNE 9-10, 1980 (INT-8008393)*; 6 MONTHS $1,144

CHEVALIER, ROGER A; *TRAVEL TO ATTEND THE INTERNATIONAL ASTRONOMICAL UNION SYMPOSIUM ON PULSARS; BONN, GERMANY; AUGUST 26-29, 1980 (INT-8009733)*; 6 MONTHS $1,100

WASHINGTON

VERESS, SANDOR A; *TRAVEL TO ATTEND: THE 14TH INTERNATIONAL CONGRESS OF THE INTERNATIONAL SOCIETY OF PHOTOGRAMMETRY; HAMBURG, WEST GERMANY; JULY 13 - 26, 1980 (INT-8000440)*; 8 MONTHS $950

BERG, JOHN C; *TRAVEL TO ATTEND 3RD INTL CONFERENCE ON PHYSICO CHEMICAL HYDRODYNAMICS; MADRID, SPAIN - MARCH 31-APRIL 2, 1980 (INT-8008598)*; 6 MONTHS $1,083

COWAN, DARREL S; *TRAVEL TO ATTEND INTERNATIONAL MEETING ON TRENCH AND FORE-ARC SEDIMENTATION AND TECTONICS IN MODERN AND ANCIENT SUBDUCTION ZONES; LONDON, ENGLAND - JUNE 23-25, 1980 (INT-8008599)*; 6 MONTHS $651

SHERIF, MEHMET A; *TRAVEL TO ATTEND THE 7TH WORLD CONFERENCE ON EARTHQUAKE ENGINEERING; ISTANBUL, TURKEY; SEPTEMBER 8-13, 1980 (INT-8014895)*; 6 MONTHS $1,575

UNIVERSITY OF WASHINGTON

STOEBE, THOMAS G; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 6TH INTERNATIONAL CONFERENCE ON SOLID STATE DOSIMETRY; TOULOUSE, FRANCE APRIL 1-4, 1980 (INT-7925448)*; 6 MONTHS $4,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

CASEY, CHARLES P; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 2ND INTERNATIONAL SYMPOSIUM ON HOMOGENEOUS CATALYSIS; DUSSELDORF, WEST GERMANY; SEPTEMBER 1-3, 1980 (INT-8004490)*; 6 MONTHS $14,000

PROBLEM-FOCUSED RESEARCH

ALABAMA

SOUTHERN RESEARCH INSTITUTE

DUNN, RICHARD L; *REPLACEMENT OF SENSORY CAPABILITIES FOR THE PHYSICALLY HANDICAPPED (PFR-7915314 A01)*; 12 MONTHS $102,698

ARIZONA

UNIVERSITY OF ARIZONA

BEANE, RICHARD E; *TIMING AMONG HYDROTHERMAL FLUIDS OF DIFFERENT TEMPERATURES AND SALINITIES FROM THE SANTA RITA PORPHYRY COPPER DEPOSIT (EAR-7713642 A01*)*; 12 MONTHS $10,000

NORTON, DENIS L; *QUANTITATIVE MODELS OF ORE DEPOSITION IN HYDROTHERMAL SYSTEMS (EAR-7919765*)*; 12 MONTHS $30,000

DAMON, PAUL E, DONAHUE, DOUGLAS J, FERGUSON, C W, LERMAN, JUAN C, AND LONG, AUSTIN; *RADIOCARBON AND CLIMATE (ATM-7923259*)*; 12 MONTHS $20,000

SAARINEN, THOMAS F; *PUBLIC RESPONSE TO GEOLOGIC HAZARDS (PFR-8002581)*; 12 MONTHS $58,895

CALIFORNIA

AGBABIAN ASSOCIATES

ADHAM, SAMY A; *INVESTIGATION OF REINFORCED BRICK MASONRY BUILDINGS UNDAMAGED BY THE SAN FERNANDO EARTHQUAKE (PFR-7900013 A01)*; 3 MONTHS $9,348

WERNER, STUART D; *BRIDGE RESPONSE TO TRAVELING SEISMIC WAVES (PFR-8007518)*; 12 MONTHS $114,993

ADHAM, SAMY A; *GUIDELINES FOR MITIGATION OF SEISMIC HAZARDS IN TILT-UP-WALL STRUCTURES (PFR-8009736)*; 6 MONTHS $23,863

ANDERSON, RAYMOND W; *INVESTIGATION OF THE SEISMIC RESISTANCE OF INTERIOR BUILDING PARTITIONS (PFR-8009921)*; 6 MONTHS $23,864

ANNEX RESEARCH

KATER, JOHN R; *ELECTRODES TO AID THE HANDICAPPED (PFR-8009361)*; 6 MONTHS $25,000

ANVER BIOSCIENCE DESIGN INC

VERBISCAR, ANTHONY J; *GUAYULE BY-PRODUCTS, RUBBER ANALYSIS AND SEED SELECTION (PFR-7910187)*; 12 MONTHS $99,970

VERBISCAR, ANTHONY J; *DEVELOPMENT OF RED SQUILL AS A RODENTICIDE (PFR-7923514)*; 12 MONTHS $102,000

APPLIED TECHNOLOGY COUNCIL

SHARPE, ROLAND L; *AN EVALUATION OF THE EARTHQUAKE RESPONSE AND ASSOCIATED DAMAGE OF THE EL CENTRO IMPERIAL COUNTY SERVICES BUILDING (PFR-8010645)*; 12 MONTHS $60,797

BUILDING SYSTEMS DEVELOPMENT INC

ARNOLD, CHRISTOPH; *METHODS AND COSTS OF MAINTAINING HOSPITAL FUNCTIONS IN EARTHQUAKES (PFR-7820902 A01*)*; $18,199

CALIFORNIA ARBORETUM FOUNDATION

HANSON, GEORGE P; *CHEMICAL STIMULATION AND BREEDING IMPROVEMENT OF RUBBER YIELD IN GUAYULE (PFR-8009543)*; 9 MONTHS $161,226

CALIFORNIA INSTITUTE OF TECHNOLOGY

SILVER, LEON T; *INVESTIGATIONS OF THE PORPHYRY COPPER METALLOGENIC PROVINCE OF THE SOUTHWESTERN UNITED STATES (EAR-7723507 A01*)*; 12 MONTHS $30,000

HOUSNER, GEORGE W, IWAN, WILFRED D, AND JENNINGS, PAUL C; *SEISMIC RESPONSE OF STRUCTURES AND STRONG-MOTION INSTRUMENTATION (PFR-7723687 A02)*; 14 MONTHS $560,324

HELMBERGER, DONALD V; *STRONG MOTION SEISMOLOGY (PFR-7921769)*; 24 MONTHS $209,393

HOUSNER, GEORGE W; *ENGINEERING STUDY OF 15 OCTOBER 1979 IMPERIAL VALLEY EARTHQUAKE DATA (PFR-8013668)*; 12 MONTHS $97,937

IWAN, WILFRED D; *U. S. - PEOPLE'S REPUBLIC OF CHINA COOPERATIVE STRONG-MOTION ARRAY (PFR-8018271)*; 12 MONTHS $200,481

COMPUTECH

JONES, LINDSAY R; *DEVELOPMENT OF A COMPREHENSIVE COMPUTER PROGRAM FOR EARTHQUAKE ANALYSIS OF BUILDINGS -- PHASE II (PFR-8000538)*; 12 MONTHS $151,848

DAMES & MOORE

ROTH, WOLFGANG H; *STABILITY OF EARTH STRUCTURES UNDER SEISMIC LOADING (PFR-7926691)*; 12 MONTHS $115,443

MCGUIRE, ROBIN K; *ESTIMATION OF SEISMIC SHEAR WAVE SPECTRA (PFR-8007083)*; 12 MONTHS $72,290

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

BLUME, JOHN A; *SCIENTIFIC AND TECHNICAL INFORMATION EXCHANGE IN EARTHQUAKE RESEARCH BETWEEN THE UNITED STATES AND THE PEOPLE'S REPUBLIC OF CHINA: E E R I DELEGATION (PFR-8019940)*; 12 MONTHS $28,800

ECOENERGETICS INC

BENEMANN, JOHN R; *MICROALGAE PRODUCTION OF GLYCEROL AND RELATED CHEMICALS ON SALINE WATERS (PFR-8009848)*; 6 MONTHS $24,901

ENGINEERING COMPUTER CORPORATION

IMBSEN, ROY A; *DEVELOPMENT AND IMPLEMENTATION OF A COMPUTERIZED LINEAR AND NONLINEAR SEISMIC DESIGN METHODOLOGY FOR BRIDGES (PFR-7919844)*; 12 MONTHS $129,619

FUGRO INC

DOUGLAS, BRUCE J, AND MARTIN, GEOFFREY R; *IN SITU TESTING IN REGIONS LIQUEFIED DURING THE 1979 IMPERIAL VALLEY EARTHQUAKE (PFR-8007419)*; 12 MONTHS $46,603

GEOLOGICAL SURVEY-GEOLOGICAL SURVEY-MENLO PARK

JOYNER, WILLIAM B; *INVESTIGATIONS OF SITES WHERE STRONG-MOTION DATA WERE RECORDED IN THE IMPERIAL VALLEY EARTHQUAKE OF 1979 (PFR-8013665)*; 12 MONTHS $74,195

HANKS, THOMAS C, AND BRADY, A G; *STUDIES OF GROUND MOTION OF TWO CALIFORNIA EARTHQUAKES (PFR-8013669)*; 24 MONTHS $140,040

J G BOUWKAMP INC

BOUWKAMP, JACK G; *EVALUATION OF COMPUTER MODELLING FORMULATION AND ADVANCED ANALYTICAL PROCEDURES FOR EARTHQUAKE RESPONSE OF MULTISTORY BUILDINGS (PFR-7926734)*; 24 MONTHS $278,206

J H KLEINFELDER & ASSOCIATES

MC RAE, CYRIL M, *EVALUATION OF TECHNIQUES FOR PREDICTING SOIL LIQUEFACTION AND IN SITU SHEAR WAVE VELOCITY (PFR-7918559)*; 12 MONTHS $78,220

J H WIGGINS COMPANY

EGUCHI, RONALD T, AND WIGGINS, JOHN H; *EARTHQUAKE SAFETY OF WATER DISTRIBUTION NETWORKS BASED ON THE CONCEPT OF BALANCED RISK (PFR-8005083)*; 18 MONTHS $206,486

JOHN A BLUME AND ASSOCIATES

SCHOLL, ROGER E; *EARTHQUAKE ENGINEERING OF LARGE UNDERGROUND STRUCTURES (PFR-7706505 A02)*; 5 MONTHS $11,000

LINDVALL RICHTER & ASSOCIATES

LINDVALL, C F; *STRONG MOTION EARTHQUAKE INSTRUMENTATION ARRAY IN SHILLONG, ASSAM, INDIA (PFR-8007159*)*; 24 MONTHS $344,540

RAND CORPORATION

WATERMAN, D A; *WORKSHOP ON EXPERT SYSTEMS, LOS ANGELES, CALIFORNIA, JUNE 1980 (MCS-7926532*)*; 12 MONTHS $10,000

REID & TARICS ASSOCIATES

TARICS, ALEXANDER G, AND KELLY, JAMES M; *A STUDY TO DETERMINE THE COST EFFECTIVENESS OF SEISMIC REHABILITATION THROUGH BASE ISOLATION (ISP-8017675*)*; 12 MONTHS $99,690

RUTHROFF ENGLEKIRK AND HART INC

ENGLEKIRK, ROBERT; *EARTHQUAKE DAMAGE EVALUATION (PFR-8003902)*; 6 MONTHS $24,301

SIGNAL TECHNOLOGY INC

WONG, DAVID Y; *VOICE RESPONSE AIDS FOR THE HANDICAPPED - AN INNOVATIVE TECHNIQUE (PFR-8009724)*; 6 MONTHS $25,000

SNAZELLE FILMS INC

SNAZELLE, GREGG; *FILM ON EARTHQUAKE HAZARDS MITIGATION RESEARCH (FORMERLY RFP 78-102: PRODUCTION OF AN ASRA FILM) (PFR-7825128 A02)*; 9 MONTHS $5,542

SPACE FOR PEOPLE

DURKIN, MICHAEL E; *METHODOLOGY FOR EVALUATING AND IMPROVING OPERATIONAL AND NON-STRUCTURAL ASPECTS OF OFFICE BUILDINGS (PFR-8009893)*; 6 MONTHS $25,000

SRI INTERNATIONAL

ABRAHAMSON, G R; *DYNAMIC SOIL-PIPE AXIAL INTERACTION FOR FULL-SCALE BURIED PIPELINES (PFR-7917019)*; 12 MONTHS $132,834

ABRAHAMSON, G R; *SIMULATION OF STRONG EARTHQUAKE MOTION WITH CONTAINED EXPLOSIVE LINE SOURCE ARRAYS (PFR-7930722)*; 12 MONTHS $255,063

DUDA, RICHARD O; *A WORKSHOP ON THE USE OF FORMAL MODELS FOR CHARACTERIZATION OF ORE DEPOSITS, MENLO PARK, CALIFORNIA, OCTOBER 27-29, 1980 (EAR-8008703*)*; 6 MONTHS $20,000

STANFORD UNIVERSITY

SHAH, HARESH C; *A GENERALIZED STUDY OF SEISMIC RISK ANALYSIS (PFR-7717834 A01)*; $22,772

LINVILL, JOHN G; *INTEGRATED ELECTRO-MECHANICAL TRANSDUCER SYSTEMS (ECS-7822167 A01*)*; 12 MONTHS $55,000

SCHAWLOW, ARTHUR L; *PRECISION OPTICAL WAVE METERS (PHY-7823532 A01*)*; 12 MONTHS $55,000

KRAWINKLER, HELMUT; *STANDARD EXPERIMENTAL METHODS FOR DETERMINING SEISMIC BEHAVIOR OF STRUCTURAL COMPONENTS (PFR-7926616)*; 18 MONTHS $97,415

EINAUDI, MARCO T; *AN INTEGRATED STUDY OF THE GENESIS OF TUNGSTEN, COPPER, AND ZINC-BEARING SKARNS IN THE WESTERN UNITED STATES (EAR-7919588*)*; 12 MONTHS $25,000

COX, ALLAN V; *PALEOMAGNETIC INVESTIGATION OF CORDILLERAN TECTONICS (EAR-7919718*)*; 24 MONTHS $20,000

PARKS, GEORGE A; *URANIUM TRANSPORT MODELLING (CPE-7920012*)*; 24 MONTHS $20,000

FAYER, MICHAEL D; *EXCITED STATE DYNAMICS IN MOLECULAR SOLIDS (DMR-7920380*)*; 12 MONTHS $40,000

SLEEP, NORMAN H; *GEODYNAMIC PROCESSES AT PLATE BOUNDARIES (EAR-8001076 A01*)*; 24 MONTHS $20,000

GELLER, ROBERT J; *RESEARCH INITIATION - DATA-ORIENTED STUDY OF STRONG MOTION (PFR-8006471)*; 15 MONTHS $39,990

STRUCTURAL SOFTWARE DEVELOPMENT INC

ROW, DENNIS G; *ANALYSIS OF EARTHQUAKE INDUCED RESPONSE FOR STRUCTURES WITH LOCALIZED NONLINEARITIES (PFR-7922695)*; 24 MONTHS $123,126

UNIVERSITY OF CALIFORNIA, BERKELEY

PENZIEN, JOSEPH, AND WILSON, EDWARD L; *NATIONAL INFORMATION SERVICE FOR EARTHQUAKE ENGINEERING (PFR-7720667 A02*)*; 12 MONTHS $317,644

CLOUGH, RAY W; *EARTHQUAKE ENGINEERING RESEARCH FACILITY SUPPORT (PFR-7721787 A01)*; 12 MONTHS $55,612

CLOUGH, RAY W; *EARTHQUAKE BEHAVIOR OF TECHI DAM (PFR-7819333 A01)*; $8,371

BARLOW, RICHARD E; *ANALYSIS OF LIFELINES SUBJECTED TO EARTHQUAKES (PFR-7822265 A01)*; 12 MONTHS $92,819

BRILLINGER, DAVID R; *THE EARTHQUAKE APPLICATIONS OF POINT PROCESS METHODOLOGY (PFR-7901642)*; 12 MONTHS $37,166

MC NIVEN, HUGH D; *SEISMIC BEHAVIOR OF MASONRY STRUCTURES (PFR-7908251 A01)*; 12 MONTHS $123,737

CLOUGH, RAY W; *SEISMIC BEHAVIOR OF COMPLETE STRUCTURAL SYSTEMS (PFR-7908257 A01)*; 12 MONTHS $375,553

CHOPRA, ANIL K; *SEISMIC BEHAVIOR OF STRUCTURAL SYSTEMS: ANALYSIS AND DESIGN OF STRUCTURES (PFR-7908281 A01)*; 12 MONTHS $259,927

POPOV, EGOR P; *SEISMIC BEHAVIOR OF STRUCTURAL COMPONENTS (PFR-7908984 A01)*; 12 MONTHS $401,624

SEED, H B; *EVALUATION OF THREE-DIMENSIONAL EFFECTS ON THE RESPONSE OF EARTH DAMS DURING EARTHQUAKES (PFR-7918267)*; 24 MONTHS $111,885

CHANG, GEORGE W; *EFFECTS OF FOOD ADDITIVES ON THE FUNCTION OF THE INTESTINAL MICROFLORA (PFR-7919105 A01)*; 12 MONTHS $67,120

MAHIN, STEPHEN A; *U. S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: EVALUATION OF PSEUDO- DYNAMIC TEST METHODS (PFR-8008584)*; 12 MONTHS $66,348

BERTERO, VITELMO V; *INVESTIGATION OF PERFORMANCE OF THE IMPERIAL COUNTY SERVICES BUILDING DURING THE 1979 IMPERIAL VALLEY EARTHQUAKE (PFR-8009040)*; 12 MONTHS $64,914

BERTERO, VITELMO V, AND CLOUGH, RAY W; *U.S. - JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: EARTHQUAKE SIMULATOR TESTS OF A REPLICA MODEL REINFORCED CONCRETE BUILDING (PFR-8009478)*; 12 MONTHS $225,000

UNIVERSITY OF CALIFORNIA, DAVIS

LYONS, JAMES M; *ENHANCING BIOLOGICAL PRODUCTION OF AMMONIA FROM ATMOSPHERIC NITROGEN AND SOIL NITRATE (PFR-7707301 A03)*; 12 MONTHS $667,819

SEGALL, HENRY J; *THE DETECTION OF PYRROLIZIDINE ALKALOIDS AND THEIR METABOLITES (DAR-7806924 A02*)*; 12 MONTHS $52,261

TAYLOR, BRUCE E; *LIGHT-STABLE ISOTOPE STUDY OF HYDROTHERMAL FLUIDS AND ORE FORMATION IN THE MOTHER LODE AND NORTHERN SIERRA NEVADA GOLD DISTRICTS (EAR-7913138*)*; 24 MONTHS $15,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

COLBY, KENNETH M; *AN OCULAR-CONTROLLED INTELLIGENT SPEECH PROSTHESIS (PFR-7917358 A01)*; 12 MONTHS $144,863

MC TAGUE, JOHN P; *DYNAMICS AND INTERACTIONS IN CONDENSED SYSTEMS (CHE-7950002 A16*)*; 12 MONTHS $50,000

KNOPOFF, LEON; *STATISTICAL INVESTIGATION OF ENGINEERING SEISMOLOGY (PFR-8008588)*; 12 MONTHS $100,077

SELNA, LAWRENCE G; *MATERIALS STUDIES ON THE IMPERIAL COUNTY SERVICES (PFR-8013664)*; 12 MONTHS $50,000

DUKE, C M; *EARTHQUAKE STUDIES ON THE IMPERIAL COUNTY SERVICES BUILDING MODELLING (PFR-8013668)*; 12 MONTHS $50,000

UNIVERSITY OF CALIFORNIA, RIVERSIDE

YERMANOS, DEMETRIOS M; *DEVELOPMENT OF SUPERIOR CULTIVARS OF JOJOBA (PFR-7812700 A02)*; 12 MONTHS $77,129

MURASHIGE, TOSHIO; *DEVELOPMENT OF TISSUE CULTURE SYSTEMS FOR GUAYULE (PFR-7825829 A01)*; 12 MONTHS $80,634

STIERMAN, DONALD J; *IN SITU STUDIES OF SEISMIC WAVE VELOCITIES AND ATTENUATION IN BASEMENT ROCKS IN SOUTHERN CALIFORNIA (EAR-7926331*)*; 16 MONTHS $10,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

CRAIG, HARMON, CHUNG, YU-CHIA, WILLIS, ROBERT D, AND LUPTON, JOHN E; *OCEAN-ATMOSPHERE INVESTIGATIONS (OCE-7925586 A01*)*; $20,000

PARKER, ROBERT L; *EXACT NON-LINEAR INVERSION OF THE ELECTROMAGNETIC INDUCTION PROBLEM (EAR-7919467*)*; 24 MONTHS $10,000

CICERONE, RALPH J; *MEASUREMENTS OF TRACE GASES AND THEORETICAL STUDIES IN ATMOSPHERIC CHEMISTRY (ATM-7913774*)*; 12 MONTHS $30,000

KEELING, CHARLES D; *A STUDY OF THE ABUNDANCE OF CARBON DIOXIDE IN THE ATMOSPHERE AND ITS EXCHANGE WITH THE OCEANS (ATM-7925965*)*; 12 MONTHS $30,000

BRUNE, JAMES N, AND LUCO, JUAN E; *NUMERICAL AND EXPERIMENTAL STUDY OF EARTHQUAKE STRONG MOTION (PFR-7926539)*; 24 MONTHS $350,073

VAN DORN, WILLIAM G; *TIDE GAGE RESPONSE TO TSUNAMIS (PFR-8006198)*; 24 MONTHS $114,946

BRUNE, JAMES N; *SPECIAL STUDIES RELATED TO THE IMPERIAL VALLEY EARTHQUAKE OF OCTOBER 15, 1979 (PFR-8007418)*; 12 MONTHS $61,445

UNIVERSITY OF CALIFORNIA, SAN DIEGO

HELINSKI, DONALD R; *ENHANCEMENT OF BIOLOGICAL NITROGEN FIXATION BY GENETIC MANIPULATION OF RHIZOBIUM (PFR-7724945 A02)*; 12 MONTHS $107,609

HEGEMIER, GILBERT A; *CONNECTIONS IN CONCRETE MASONRY BUILDINGS UNDER SEISMIC EXCITATIONS (PFR-7816581 A01)*; 12 MONTHS $315,000

SUESS, HANS E, AND DRUFFEL, ELLEN; *INVESTIGATIONS OF RADIOCARBON IN ANNUAL CORAL RINGS (OCE-7917652*)*; 12 MONTHS $15,000

DELUCA, MARLENE, AND MCELROY, W D; *INTERNATIONAL SYMPOSIUM ON LUMINESCENCE; AUGUST 26-29, 1980; LA JOLLA, CALIFORNIA (PCM-7923854*)*; 12 MONTHS $12,000

UNIVERSITY OF REDLANDS

OLSON, RICHARD S; *SEISMIC SAFETY AND PUBLIC POLICY PROCESSES: A STUDY OF THREE JURISDICTIONS IN SAN BERNARDINO COUNTY, CALIFORNIA (PFR-7923495)*; 24 MONTHS $194,104

UNIVERSITY OF SOUTHERN CALIFORNIA

MASRI, SAMI F; *ANALYSIS OF MECHANICAL EQUIPMENT UNDER EARTHQUAKE EXCITATION (PFR-7919888)*; 24 MONTHS $110,960

WEIDLINGER ASSOCIATES-WEIDLINGER ASSOCIATES-MENLO PARK

WONG, FELIX S; *RESPONSE SURFACE METHOD IN GEOTECHNICAL/STRUCTURAL ANALYSIS--PHASE I (PFR-8009770)*; 6 MONTHS $24,122

COLORADO

ATKINSON-NOLAND AND ASSOCIATES INC

NOLAND, JAMES L; *METHODS OF NON-DESTRUCTIVE EVALUATION OF MASONRY STRUCTURES (PFR-7916572)*; 15 MONTHS $82,737

NOLAND, JAMES L; *CONFERENCE ON RESEARCH IN PROGRESS ON MASONRY CONSTRUCTION (PFR-7926639)*; 9 MONTHS $22,243

COLORADO STATE UNIVERSITY

NELSON, JOHN D; *INTERACTION OF SEISMIC ENGINEERING DESIGN AND RISK FROM OTHER HAZARDS - EXPANSIVE SOIL DAMAGE TO STRUCTURES AND FOUNDATIONS (PFR-7910337)*; 24 MONTHS $209,374

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION-NATIONAL GEOPHYSICAL & SOLAR-TERRESTRIAL DATA

MEYERS, HERBERT; *U.S. EARTHQUAKE INTENSITY DATA FILE (PFR-8005552)*; 12 MONTHS $44,000

UNIVERSITY OF COLORADO AT BOULDER

WHITE, GILBERT F; *A CLEARINGHOUSE ON NATURAL HAZARDS RESEARCH AND APPLICATIONS (PFR-7906160 A03)*; 12 MONTHS $30,000

CLARK, NOEL A; *FREELY SUSPENDED LIQUID CRYSTAL FILMS (DMR-7920169*)*; 12 MONTHS $15,000

ABRAMS, DANIEL P; *RESEARCH INITIATION - SCALE MODELING OF THE SEISMIC RESISTANCE OF REINFORCED CONCRETE COMPONENTS (PFR-8007094)*; 15 MONTHS $39,998

UNIVERSITY OF DENVER

DRABEK, THOMAS E; *SEARCH AND RESCUE MISSIONS IN NATURAL DISASTERS AND REMOTE SETTINGS (PFR-7714162 A02)*; $14,632

CONNECTICUT

HASKINS LABORATORIES INC

MATTINGLY, IGNATIUS G; *A GENERAL-PURPOSE SYSTEM FOR THE SYNTHESIS BY RULE OF NATURAL-SOUNDING SPEECH (PFR-8008144)*; 24 MONTHS $227,443

SIMCO INC

SCHELD, H WILLIAM; *THE CHINESE TALLOW TREE AS A SOURCE OF PETROLEUM SUBSTITUTES (PFR-8010567)*; 6 MONTHS $25,000

DISTRICT OF COLUMBIA

ACADEMY FOR CONTEMPORARY PROBLEMS-ACADEMY FOR CONTEMPORARY PROBLEMS-D C

RUBIN, CLAIRE B; *NATURAL DISASTER MITIGATION AND RECOVERY: ENHANCING THE DISSEMINATION OF RESEARCH RESULTS TO STATE AND LOCAL OFFICIALS (PFR-7924999)*; 12 MONTHS $144,463

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

RATCHFORD, J THOMAS; *WORKSHOP ON TASK FORCE STUDIES FROM THE INTERGOVERNMENTAL SCIENCE, ENGINEERING AND TECHNOLOGY ADVISORY PANEL (ESETAP) (PFR-7824464 A02*)*; 8 MONTHS $25,000

RATCHFORD, J THOMAS; *WORKSHOP ON TASK FORCE STUDIES FROM THE INTERGOVERNMENTAL SCIENCE, ENGINEERING, AND TECHNOLOGY PANEL (ISETAP) (PFR-7824444 A04)*; 3 MONTHS $35,000

REDDEN, MARTHA R; *PLANNING WORKSHOPS FOR SCIENCE AND TECHNOLOGY FOR THE HANDICAPPED (PFR-7920290 A01*)*; 12 MONTHS $106,601

ASSOCIATED UNIVERSITIES INC

HOLLAENDER, ALEXANDER; *TRENDS IN THE BIOLOGY OF FERMENTATIONS FOR FUELS AND CHEMICALS; BROOKHAVEN, NEW YORK, DECEMBER 7-11, 1980 (PCM-8019876*)*; 12 MONTHS $10,000

ASSOCIATION OF AMERICAN GEOGRAPHERS

REES, JOHN; *JOINT AMERICAN-BRITISH SEMINAR FOR COLLABORATIVE RESEARCH ON REGIONAL STAGNATION, JANUARY 5-7, 1980, UNITED KINGDOM (SES-7925038*)*; 6 MONTHS $6,000

COURTESY TRAVEL SERVICE

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (INT-8018782*)*; 12 MONTHS $50,000

FEDERAL EMERGENCY MANAGEMENT AGENCY

SULLIVAN, DAN; *MULTIPROTECTION DESIGN SUMMER INSTITUTE (PFR-8008493)*; 10 MONTHS $25,000

GEORGE WASHINGTON UNIVERSITY

NOOR, AHMED K; *AN IMPROVED COMPUTATIONAL STRATEGY FOR THE NONLINEAR ANALYSIS OF STRUCTURES SUBJECTED TO EARTHQUAKE AND WIND LOADS (PFR-7916263 A01)*; 12 MONTHS $71,912

GEORGE WASHINGTON UNIVERSITY-MEDICAL CENTER

VAHOUNY, GEORGE V; *DIETARY FIBERS AND BIOAVAILABILITY OF NUTRIENTS (PFR-7918561)*; 24 MONTHS $50,587

NATIONAL ACADEMY OF SCIENCES

PRINDLE, WILLIAM R; *SYMPOSIUM ON THE CONSERVATION OF HISTORIC STONE BUILDINGS AND MONUMENTS (EAS-8015683)*; 12 MONTHS $35,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

FRITZ, CHARLES E; *STUDY OF THE ROLE OF THE MASS MEDIA IN DISASTER REPORTING (PFR-7820365 A02)*; 12 MONTHS $150,485

HART, PEMBROKE J; *STUDIES IN GEOPHYSICS (EAR-7902458 A03*)*; 12 MONTHS $10,000

TOWNSLEY, EDWIN S; *IMPROVING PRODUCTIVITY IN BUILDING AND CONSTRUCTION (PFR-7927325)*; 12 MONTHS $10,000

FLORIDA

FLORIDA STATE UNIVERSITY

HATCHER, ROBERT D, AND ODOM, A L; *TECTONIC HISTORY OF THE PINE MOUNTAIN BELT, GEORGIA, AND ITS RELATIONSHIPS TO FORMATION OF CRYSTALLINE THRUST SHEETS (EAR-7911802*)*; 24 MONTHS $20,000

HATCHER, ROBERT D; *PENROSE CONFERENCE ON TECTONICS AND GEOPHYSICS OF THE APPALACHIANS, HELEN, GEORGIA, APRIL 28 - MAY 2, 1980 (EAR-8001472*)*; 5 MONTHS $3,900

UNIVERSITY OF FLORIDA

LEADON, BERNARD M; *FLUCTUATING PRESSURES ON TALL BUILDINGS (PFR-7716391 A02)*; 12 MONTHS $60,770

KIRK, JAMES R; *ASSESSMENT OF TOXICOLOGICAL HAZARDS FROM CHLOROGANICS FORMED IN FOODS (PFR-7827067 A01)*; 12 MONTHS $72,463

BATES, ROGER G; *SOLUTION CHEMISTRY OF SEAWATER (OCE-7922025*)*; 12 MONTHS $10,000

BREZONIK, PATRICK L; *NITROGEN FIXATION BY ROOT ASSOCIATIONS OF TREES IN CYPRESS WETLANDS (DEB-7922434*)*; 24 MONTHS $22,000

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

MILLERO, FRANK J; *THE EFFECT OF PRESSURE ON THE SOLUBILITY OF CALCITE AND ARAGONITE IN SEAWATER (OCE-7919145*)*; 12 MONTHS $20,000

MITSUI, AKIRA; *PHOTOPRODUCTION OF HYDROGEN BY MARINE BLUE-GREEN ALGAE (PFR-8018142)*; 12 MONTHS $135,117

UNIVERSITY OF MIAMI

WARBURTON, RALPH; *RESEARCH INITIATION: DEVELOPMENT OF A MODEL RECERTIFICATION OF BUILDINGS PROCESS (PFR-8007119)*; 15 MONTHS $40,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

GOODNO, BARRY J; *INFLUENCE OF NON-STRUCTURAL CLADDING ON DYNAMIC PROPERTIES AND RESPONSE OF HIGH-RISE BUILDINGS (PFR-7704289 A02)*; 12 MONTHS $96,041

GAYLORD, THOMAS K; *PHOTOREFRACTIVE EFFECT AND VOLUME GRATING DIFFRACTION IN ELECTRO-OPTIC CRYSTALS (ECS-7919599*)*; 24 MONTHS $25,000

GOODNO, BARRY J; *SECOND SPECIALTY CONFERENCE ON SEISMIC AND DYNAMIC RESPONSE OF STRUCTURES; JANUARY 14-16, 1991; ATLANTA, GEORGIA (PFR-7914995)*; 12 MONTHS $13,200

MARESCHAL, J-C; *A MAGNETOTELLURIC SURVEY IN THE SOUTHERN APPALACHIANS (EAR-7915395*)*; 12 MONTHS $5,000

KAHN, LAWRENCE F; *STRENGTHENING OF BRICK MASONRY WITH SHOTCRETE (PFR-8002583)*; 18 MONTHS $56,750

HALDAR, ACHINTYA; *RESEARCH INITIATION - PROBABILISTIC EVALUATION OF DAMAGE POTENTIAL IN EARTHQUAKE-INDUCED LIQUEFACTION IN A 3-D SOIL DEPOSIT (PFR-8006348)*; 15 MONTHS $39,987

UNIVERSITY OF GEORGIA

BATES, FREDERICK L; *A LONGITUDINAL AND CROSS CULTURAL STUDY OF THE POST IMPACT PHASES OF A MAJOR NATIONAL DISASTER (PFR-7712721 A04)*; $25,072

HAWAII

UNIVERSITY OF HAWAII-MANOA

GERSCH, WILL M; *PARAMETER IDENTIFICATION METHODS FOR STRUCTURES SUBJECTED TO EARTHQUAKE LOADINGS (PFR-7916263)*; 24 MONTHS $96,525

CHIU, ARTHUR N; *RISK ANALYSIS FOR NATURAL HAZARDS DAMAGE MITIGATION (PFR-7924796*)*; 12 MONTHS $60,000

MOORE, DENNIS W; *IMPROVEMENTS IN COLLECTION AND DISSEMINATION OF TSUNAMI DATA (PFR-8007158)*; 12 MONTHS $42,606

ADAMS, WILLIAM M; *IMPROVED NUMERICAL MODELING AND COMPUTER TECHNIQUES FOR PREDICTING TSUNAMI INUNDATION (PFR-8006239)*; 12 MONTHS $34,845

URBAN REGIONAL RESEARCH

PREUSS, ROLF; *LAND MANAGEMENT AND PHYSICAL FORM GUIDELINES FOR TSUNAMI HIGH HAZARD AREAS (PFR-7823984)*; 15 MONTHS $92,579

IDAHO

UNIVERSITY OF IDAHO

AUGUSTIN, JORG A; *HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY AND BIOAVAILABILITY OF VITAMINS (PFR-7919131)*; 18 MONTHS $67,804

ILLINOIS

AMERICAN PLANNING ASSOCIATION

THUROW, CHARLES; *EARTHQUAKE HAZARD MITIGATION THROUGH LAND USE MANAGEMENT: A GUIDE FOR PLANNERS AND PUBLIC OFFICIALS (PFR-7915290)*; 9 MONTHS $87,273

ILLINOIS INSTITUTE OF TECHNOLOGY

TORKAMANI, MORTEZA A; *DESIGN OF MULTI-STORY BUILDINGS BY COMPONENT MODE SYNTHESIS (PFR-7812981 A02)*; $10,085

INDIVIDUAL AWARD

ACKERMANN, WILLIAM C; *FLOOD HAZARD MITIGATION STUDY (PFR-8008318)*; 9 MONTHS $14,710

ACKERMANN, WILLIAM C; *FLOOD HAZARD MITIGATION STUDY REPORT (PFR-8008318 A01)*; $5,705

NORTHWESTERN UNIVERSITY

SPEED, ROBERT C; *GEOLOGIC AND PALEOMAGNETIC STUDIES OF SONOMIA AND THE TECTONIC HISTORY OF WESTERN NORTH AMERICA (EAR-7911150*)*; 15 MONTHS $29,000

STEIN, SETH; *RESEARCH INITIATION -- TELESEISMIC ANALYSIS OF HAZARDOUS EARTHQUAKES (PFR-8007168)*; 15 MONTHS $39,951

PORTLAND CEMENT ASSOCIATION-RESEARCH AND DEVELOPMENT DIVISION

HANSON, NORMAN W; *BEHAVIOR OF LIGHTWEIGHT CONCRETE COLUMNS FOR SEISMIC EFFECTS (PFR-7902611)*; 24 MONTHS $350,902

CORLEY, W G; *U.S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: QUASISTATIC TESTS ON PLANAR REINFORCED CONCRETE STRUCTURES (PFR-8008753)*; 12 MONTHS $120,964

UNIVERSITY OF CHICAGO

DOUGLAS, JIM; *NUMERICAL ANALYSIS AND PARTIAL DIFFERENTIAL EQUATIONS (MCS-7902561 A02*)*; 12 MONTHS $15,000

RICHTER, FRANK M; *DYNAMICAL MODELS RELATED TO MANTLE CONVECTION (EAR-7924542*)*; 12 MONTHS $20,000

UNIVERSITY OF ILLINOIS AT URBANA

SOZEN, METE A, AND SCHNOBRICH, WILLIAM C; *EFFECTS OF EARTHQUAKE MOTIONS ON REINFORCED CONCRETE BUILDINGS (PFR-7816319 A01)*; 12 MONTHS $269,070

GOVINDJEE, -; *ROLE OF BICARBONATE IN REGULATING PHOTOSYNTHETIC ELECTRON FLOW (PCM-7814521*)*; 12 MONTHS $15,000

FLYGARE, WILLIS H; *HIGH RESOLUTION MICROWAVE SPECTROSCOPY (CHE-7850091 A02*)*; 12 MONTHS $50,000

LIN, Y K; *EFFECTS OF VERTICAL GROUND ACCELERATION ON STRUCTURAL RESPONSE UNDER EARTHQUAKE EXCITATIONS (PFR-7919619)*; 24 MONTHS $111,900

HALL, WILLIAM J, AND PECKNOLD, D A; *EARTHQUAKE ENGINEERING DESIGN INVESTIGATIONS (PFR-8002582)*; 12 MONTHS $168,020

ANG, A H-S, AND WEN, Y K; *SAFETY EVALUATION OF STRUCTURES TO EARTHQUAKE HAZARDS (PFR-8002584)*; 12 MONTHS $152,845

SOZEN, METE A; *EXPERIMENTAL ANALYSIS OF THE CALIFORNIA IMPERIAL COUNTRY SERVICES BUILDING (PFR-8007160)*; 12 MONTHS $54,120

SOZEN, METE A; *U. S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: EARTHQUAKE SIMULATION TESTS ON SMALL-SCALE BUILDING MODELS (PFR-8007713)*; 12 MONTHS $109,265

INDIANA

PURDUE UNIVERSITY

SCHIFF, ANSHEL J; *IMPROVING EARTHQUAKE RESPONSE OF POWER TRANSMISSION SUBSTATIONS (PFR-7925485 A01)*; 12 MONTHS $100,094

GENIN, JOSEPH; *ENERGY ABSORPTION BOUNDARY MECHANISMS FOR SEISMICALLY LOADED STRUCTURES (PFR-7901944)*; 24 MONTHS $74,877

HARR, MILTON E; *RELIABILITY OF STRUCTURES RETAINING SOIL UNDER EARTHQUAKE LOADINGS (PFR-7906295)*; 24 MONTHS $110,701

YAO, JAMES T, AND FU, KING-SUN; *METHODOLOGY FOR DAMAGE ASSESSMENT OF EXISTING STRUCTURES (PFR-7906994)*; 24 MONTHS $218,679

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

BREMNER, JOHN M; *NATURAL AND FERTILIZER-INDUCED EMISSIONS OF NITROUS OXIDE FROM SOILS (DEB-7723935 A01*)*; 12 MONTHS $58,000

KANSAS

KANSAS STATE UNIVERSITY

SHEPARD, JAMES F; *REGENERATION, SELECTION AND EVALUATION OF PLANTS FROM PROTOPLASTS OF POTATO (PFR-7713141 A01)*; 12 MONTHS $100,000

CHAUDHURI, SAMBHUDAS; *THE STRONTIUM ISOTOPIC COMPOSITION OF FORMATION WATERS (EAR-7920070*)*; 24 MONTHS $10,000

UNIVERSITY OF KANSAS MAIN CAMPUS

VAN SCHMUS, WILLIAM R; *GEOCHRONOLOGY AND GEOCHEMISTRY OF EARLY PROTEROZOIC MOBILE BELTS IN NORTH AMERICA (EAR-7919544*)*; 12 MONTHS $20,000

KENTUCKY

UNIVERSITY OF KENTUCKY

ROSENTHAL, GERALD A; *CHEMISTRY OF NON-PROTEIN AMINO ACIDS (PCM-7920147*)*; 12 MONTHS $15,000

UNIVERSITY OF LOUISVILLE

AGUIRRE-RAMIREZ, GILBERT; *RESEARCH INTITIATION - GENERATION OF EARTHQUAKE DESIGN SPECTRUM CONSISTENT TIME HISTORY (PFR-8006149)*; 15 MONTHS $29,999

MAINE

NORTHEASTERN RESEARCH FOUNDATION INC-BIGELOW LABORATORY FOR OCEAN SCIENCES

GLOVER, HILARY E; *AN ENZYMATIC APPROACH TO MEASURE CHEMOAUTOTROPHIC CO2 ASSIMILATION IN MARINE BACTERIA (OCE-7915407*)*; 24 MONTHS $15,000

MARYLAND

ADVANCED TECHNOLOGY & RESEARCH INC

CHEN, JIGHEN; *APPLICATION OF THE RANDOMDEC TECHNIQUE TO IMPROVE THE EARTHQUAKE SURVIVABILITY OF STRUCTURES ON SOIL FOUNDATION (PFR-8003731)*; 6 MONTHS $25,000

APPLIED PHYSICS LABORATORY-LAUREL

HAZAN, PAUL L; *APPLICATION OF PERSONAL COMPUTING TO ASSIST THE HANDICAPPED (PFR-8017898*)*; 8 MONTHS $45,500

CAPITAL SYSTEMS GROUP INC

CLANSKEY, KENNETH B; *SUPPORT SERVICES FOR RESEARCH INFORMATION PROCESSING AND DISSEMINATION PROGRAMS (EAS-8010049*)*; 12 MONTHS $140,500

NATIONAL INSTITUTES OF HEALTH

CHAMBERLAYNE, EARL C; *THE XII INTERNATIONAL CONGRESS OF NUTRITION, SAN DIEGO, CALIFORNIA, AUGUST 1981 (PFR-8012210)*; 18 MONTHS $5,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

LOEB, JOHN; *INTRODUCTION OF EARTHQUAKE HAZARD MITIGATION THROUGH MULTIHAZARD TECHNIQUES IN AREAS OF LOW CONCERN FOR SEISMIC RISK (PFR-7908700)*; 10 MONTHS $15,110

MASSACHUSETTS

ABBI INC

GILL, SUSAN P; *MORPHOLOGY OF TENSILE AND PNEUMATIC STRUCTURAL SYSTEMS FOR SEISMIC DESIGN (PFR-8009954)*; 6 MONTHS $25,000

CLARK UNIVERSITY

WARRICK, RICHARD A; *ASSESSING VULNERABILITY TO VOLCANIC ASHFALL IN EAST CENTRAL WASHINGTON: DECISION-MAKING AND ADJUSTMENTS IN THE AGRICULTURAL SECTOR (PFR-8008077)*; 9 MONTHS $9,375

EDUCATION DEVELOPMENT CENTER

HEALER, CHERYL; *SEISMIC INSTITUTE FOR BUILDING OFFICIALS (PFR-8006806)*; 7 MONTHS $35,786

GEOTECHNICAL ENGINEERS INC

CASTRO, GONZALO; *LIQUEFACTION INDUCED BY CYCLIC LOADS (PFR-7924741)*; 15 MONTHS $89,891

HARVARD UNIVERSITY

HUBER, PETER J; *INTERACTIVE GRAPHICAL ANALYSIS OF MULTIDIMENSIONAL DATA (MCS-7908635 A01*)*; 12 MONTHS $12,500

CARRIER, GEORGE F; *TSUNAMI PROPAGATION AND RUN-UP RESEARCH (PFR-7911774)*; 12 MONTHS $50,000

IONOMET COMPANY

GOLDBERG, GERSHON M; *HIGH SPEED UV AND ELECTRON RESIST SYSTEM (DAR-8018095*)*; 24 MONTHS $10,567

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

BURCHFIEL, BURRELL C; *STRUCTURAL FRAMEWORK AND EVOLUTION OF THE SOUTHERN PART OF THE CORDILLERAN OROGENIC BELT (EAR-7713637 A01*)*; 24 MONTHS $20,000

VENEZIANO, DANIELE, CORNELL, C. ALLEN, AND SIMMONS, GENE; *SPATIAL MODELS OF SEISMICITY FOR ENGINEERING RISK (PFR-7909626 A01)*; 12 MONTHS $116,824

BECKER, JAMES M; *SEISMIC RESISTANCE OF PRECAST CONCRETE PANEL BUILDINGS (PFR-7818742 A01)*; 12 MONTHS $295,110

YOUNG, VERNON R, SOLOMONS, NOEL, AND JANGHORBANI, MORTEZA; *BIOAVAILABILITY OF SELENIUM AND ZINC IN PROCESSED HUMAN FOODS BASED ON SOY PROTEINS: STUDIES USING STABLE ISOTOPE TRACERS (PFR-7919112 A01)*; 12 MONTHS $87,312

MOREL, FRANCOIS M; *DEVELOPMENT OF AN ANALYTICAL METHOD FOR MEASURING IRON SPECIES IN SEAWATER (OCE-7919549*)*; 12 MONTHS $10,000

WHITMAN, ROBERT V; *SEISMIC DESIGN FOR GRAVITY RETAINING WALLS (PFR-7919688)*; 24 MONTHS $191,123

MEI, CHIANG C; *DYNAMIC MECHANICAL RESPONSE OF SATURATED POROUS MEDIA IN GEOMECHANICS (CME-7921993*)*; 12 MONTHS $15,000

GATOS, HARRY C, AND LAGOWSKI, JOSEPH J; *PREPARATION AND CHARACTERIZATION OF GALLIUM ARSENIDE STRUCTURES (ECS-7918741*)*; 12 MONTHS $20,000

AKI, KEIITI; *A NEW APPROACH TO THE PREDICTION OF EARTHQUAKE STRONG MOTION (PFR-8005720)*; 24 MONTHS $238,360

NORTHEASTERN UNIVERSITY

SCHARF, BERTRAM; *SPEECH PERCEPTION IN NOISE BY THE HEARING IMPAIRED (PFR-8006146)*; 24 MONTHS $210,386

SCIENTIFIC SYSTEMS INC

JARISCH, WOLFRAM; *MICROPROCESSOR-BASED INTEGRATION OF ARTIFICIAL REFLEXES AND SENSORY FEEDBACK FOR PROSTHETIC CONTROL (PFR-8009412)*; 6 MONTHS $25,000

SIGNATRON INC

KATES, JAMES M; *ENHANCEMENT OF SPEECH INTELLIGIBILITY FOR THE HEARING IMPAIRED (PFR-8009372)*; 6 MONTHS $25,000

TUFTS-NEW ENGLAND MEDICAL CENTER INC

WILLARD, MARY J; *CAPUCHIN MONKEYS AS AIDES FOR THE SEVERELY DISABLED (PFR-8001936)*; 12 MONTHS $48,572

UNIVERSITY OF MASSACHUSETTS, AMHERST

ROBINSON, PETER; *STRATIGRAPHY, STRUCTURE, AND METAMORPHIC PETROLOGY OF PREDEVONIAN ROCKS IN CENTRAL MASSACHUSETTS (EAR-7915248*)*; 24 MONTHS $5,000

ROBBI, PETER H; *VICTIMIZATION BY NATURAL HAZARD IN THE UNITED STATES (PFR-7926741)*; 15 MONTHS $352,895

WOODS HOLE OCEANOGRAPHIC INSTITUTION

SAYLES, FREDERICK L; *SEAWATER-SEDIMENT INTERACTION: THE DIFFUSIVE FLUXES OF IONS BETWEEN THE OCEANS AND THE UNDERLYING SEDIMENTS (OCE-7824685 A02*)*; 12 MONTHS $20,000

TAYLOR, CRAIG D, AND GAGOSIAN, ROBERT B; *MICROBIAL TRANSFORMATIONS OF ORGANIC COMPOUNDS IN THE ANOXIC MARINE ENVIRONMENT (OCE-7919264*)*; 12 MONTHS $20,000

JENKINS, WILLIAM J; *A STUDY OF TRANSPORT PROCESSES IN THE NORTH ATLANTIC OCEAN USING TRITIUM AND HELIUM (OCE-7919815*)*; 12 MONTHS $25,000

BRYAN, WILFRED B, AND THOMPSON, GEOFFREY; *KANE FRACTURE ZONE: DEEP CRUSTAL STRATIGRAPHY AND STRUCTURE (OCE-7926302*)*; 12 MONTHS $20,000

WORCESTER POLYTECHNIC INSTITUTE

JAYACHANDRAN, P; *RESEARCH INITIATION - RESPONSE OF ECCENTRICALLY BRACED TALL BLDGS. TO EARTHQUAKES (PFR-8006425)*; 15 MONTHS $29,848

MICHIGAN

UNIVERSITY OF MICHIGAN

HANSON, ROBERT D; *A COOPERATIVE RESEARCH PROGRAM IN EARTHQUAKE ENGINEERING ON REPAIR AND RETROFIT OF STRUCTURES (PFR-7916730 A01)*; 12 MONTHS $48,562

WIGHT, JAMES K; *EXPERIMENTAL INVESTIGATION OF REINFORCED CONCRETE BEAM-COLUMN CONNECTIONS SUBJECTED TO EARTHQUAKE TYPE LOADING (PFR-7824556 A01)*; 12 MONTHS $62,668

FOGLER, H SCOTT; *KINETICS OF CATALYZED DISSOLUTION OF SILICATE MINERALS (CPE-7915173*)*; 24 MONTHS $25,000

LEHMAN, JOHN T; *NUTRIENT FLUXES IN FRESHWATER PLANKTON COMMUNITIES (DEB-7922143*)*; 24 MONTHS $10,000

HANSON, ROBERT D; *U.S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: DEVELOPMENT AND VERIFICATION OF THE PSEUDO-DYNAMIC TEST METHOD (PFR-8008583)*; 12 MONTHS $60,000

HANSON, ROBERT D; *U.S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: TEST OF FULL-SIZE REINFORCED CONCRETE BUILDING (PFR-8018901)*; 12 MONTHS $189,000

MINNESOTA

NORTHERN INSTRUMENTS CORPORATION

BOERWINKLE, FRED P; *THE MEASUREMENT OF DIELECTRIC CONSTANT AS A METHOD FOR QUALITY ASSESSMENT OF FRYING OILS (PFR-8010551)*; 6 MONTHS $24,550

UNIVERSITY OF MINNESOTA-AGRICULTURAL EXPERIMENT STATION

SHAPIRO, JOSEPH; *COMPLEX INTERACTIONS BETWEEN DAPHNIA AND APHANIZOMENON (DEB-7921755*)*; 12 MONTHS $15,000

UNIVERSITY OF MINNESOTA

SATTINGER, DAVID H; *BIFURCATION THEORY AND CRITICAL PHENOMENA (MCS-7800415 A01*)*; 36 MONTHS $10,000

CRAWFORD, RONALD L; *BACTERIAL TRANSFORMATIONS OF LIGNIN (PFR-7906772 A01)*; 12 MONTHS $50,202

UNIVERSITY OF MINNESOTA AT SAINT PAUL

LABUZA, THEODORE P; *NUTRIENT LOSSES IN PASTA UNDER CONSTANT AND FLUCTUATING CONDITIONS (PFR-7910370 A01)*; 12 MONTHS $60,648

MISSOURI

ST LOUIS UNIVERSITY

HERRMANN, ROBERT B; *EARTHQUAKE GROUND MOTION SCALING FOR THE CENTRAL UNITED STATES (PFR-7909795)*; 24 MONTHS $197,113

UNIVERSITY OF MISSOURI, COLUMBIA

WERNER, SAMUEL A; *NEUTRON SCHRODINGER WAVES (PHY-7920979*)*; 12 MONTHS $20,000

ANDERSON, HELEN L; *BIOAVAILABILITY OF ZINC IN HUMAN FOODS (PFR-8011114)*; 18 MONTHS $211,990

WASHINGTON UNIVERSITY

KOHL, DANIEL H, AND SHEARER, GEORGIA; *NITROGEN ISOTOPE FRACTIONATION AND THE RELATIVE RATES OF NITROGEN TRANSFORMATIONS (PCM-7923270*)*; 12 MONTHS $20,000

MONTANA

MONTANA STATE UNIVERSITY

KEIGHTLEY, W O; *FRICTION DAMPERS FOR EARTHQUAKE PROTECTION OF BUILDINGS (PFR-8011545)*; 24 MONTHS $74,512

UNIVERSITY OF MONTANA

SHAFIZADEH, FRED; *PYROLYTIC CONVERSION OF LIGNOCELLULOSIC MATERIALS (PFR-7818096 A01)*; $13,012

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

SATTERLEE, LOWELL D; *THE EFFECTS OF PROCESSING ON THE PROTEIN QUALITY OF LEGUME BASED FOODS AND COLLABORATIVE TESTING OF THE C-PER ASSAY (PFR-7919133 A01)*; 12 MONTHS $79,566

NEVADA

DEPARTMENT OF ENERGY-NEVADO OPERATIONS OFFICE

COYLE, PHILIP; *VIBRATION TESTING OF AN EPOXY-REPAIRED 4-STORY CONCRETE STRUCTURE (PFR-7812714 A01)*; 12 MONTHS $173,041

UNIVERSITY OF NEVADA, RENO

SAIIDI-MOVAHHED, MEHDI; *SIMPLE EARTHQUAKE ANALYSIS OF MULTISTORY REINFORCED CONCRETE STRUCTURES (PFR-8006423)*; 15 MONTHS $37,323

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

GAUDETTE, HENRI E; *A RB-SR AND U-PB GEOCHRONOLOGIC STUDY OF PRECAMBRIAN ROCKS IN EASTERN NEW ENGLAND AND MARITIME CANADA (EAR-7927093*)*; 24 MONTHS $10,000

NEW JERSEY

PRINCETON UNIVERSITY

GRAY, WILLIAM G, PINDER, GEORGE F, AND CRERAR, DAVID A; *INVESTIGATION INTO THE PHYSICAL-CHEMICAL ASPECTS OF SOLUTION MINING (CME-7920996*)*; 12 MONTHS $30,000

ABDEL-GHAFFAR, AHMED M; *EARTHQUAKE INDUCED LONGITUDINAL VIBRATION OF EARTH DAMS (PFR-8005615)*; 10 MONTHS $22,410

ANTAL, MICHAEL J; *CHEMICALS FROM BIOMASS BY RADIANT FLASH PYROLYSIS (PFR-8008690)*; 12 MONTHS $161,706

NEW MEXICO

HIGGINS AULD & ASSOCIATES INC

HIGGINS, CORNELIUS J; *DEVELOP IMPROVED TECHNIQUES FOR THE SIMULATION OF EARTHQUAKE-LIKE GROUND MOTIONS WITH HIGH EXPLOSIVES (PFR-7913500)*; 18 MONTHS $78,919

HIGGINS, CORNELIUS J; *FEASIBILITY OF ESTABLISHING A NATIONAL TESTING CAPABILITY FOR THE SIMULATION OF EARTHQUAKE LOADS ON LARGE-SCALE STRUCTURES (PFR-8009884)*; 6 MONTHS $24,628

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

BODINE, MARC W, AND NORMAN, DAVID I; *GEOCHEMISTRY AND MINERALOGY OF THE CREEDE FORMATION, CREEDE, COLORADO (EAR-7915184*)*; 24 MONTHS $20,000

NEW MEXICO STATE UNIVERSITY

FOWLER, JAMES L; *CRAMBE SPECIES AS AN ALTERNATE BIOLOGICAL SOURCE OF OIL AND PROTEIN FOR ARID LANDS (PFR-7919931)*; 24 MONTHS $99,472

BOLIN, ROBERT; *THE IMPACT OF DISASTER AID PROGRAMS ON LONG-TERM FAMILY RECOVERY: A LONGITUDINAL COMPARISON OF A RURAL AND AN URBAN SITE (PFR-8009831)*; 13 MONTHS $77,066

UNIVERSITY OF NEW MEXICO

MAY, GERALD W; *INTERNATIONAL WORKSHOP ON EARTHEN BUILDING MATERIALS AND METHODS IN SEISMIC AREAS (PFR-7919671*)*; 18 MONTHS $34,935

NEW YORK

AMERICAN FOUNDATION FOR THE BLIND

MAURE, DOUGLAS; *RESEARCH ON TRANSITORY TACTILE DISPLAYS (PFR-8006392)*; 18 MONTHS $155,907

BUFFALO ORGAN FOR SOC TECHNL INNOVATION INC

BRILL, MICHAEL, AND CLAYTON, PAMELA; *SEISMIC DESIGN DECISIONS IN THE BUILDING PROCESS (PFR-7920568*)*; 9 MONTHS $67,280

COLUMBIA UNIVERSITY-COLLEGE OF PHYSICIANS AND SURGEONS

DOBELLE, WILLIAM H; *ELECTRICAL STIMULATION OF THE SKIN AS A BASIS FOR SENSORY PROSTHESES (PFR-7917824 A01)*; 12 MONTHS $95,900

KRASNA, ALVIN I; *BIOLOGICAL AND SYNTHETIC SYSTEMS FOR PRODUCTION OF HYDROGEN FROM WATER (PFR-7927221)*; 12 MONTHS $115,066

COLUMBIA UNIVERSITY

BERNSTEIN, RICHARD B; *LASER MASS SPECTROMETRY: VIBRONIC/MASS SPECTROSCOPY VIA MULTIPLE PHOTON IONIZATION OF POLYATOMIC MOLECULES (CHE-7825187 A01*)*; 12 MONTHS $50,000

MEYER, CHRISTIAN, AND SHINOZUKA, MASANOBU; *SEISMIC RELIABILITY OF DAMAGED REINFORCED CONCRETE BUILDINGS (PFR-7924695)*; 18 MONTHS $84,467

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

SIMPSON, D W; *INDUCED SEISMICITY AT NUREK RESERVOIR, TADJIKISTAN, USSR (PFR-7926690)*; 12 MONTHS $80,197

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

MCGUIRE, WILLIAM, ABEL, JOHN F, AND GREENBERG, DONALD P; *NONLINEAR ANALYSIS AND DESIGN OF STEEL FRAMES (PFR-7815357 A01)*; 12 MONTHS $149,887

LIU, PHILIP L, AND LIGGETT, JAMES A; *NUMERICAL MODELING OF TSUNAMIS (PFR-7815358 A01)*; 12 MONTHS $59,964

KAY, ROBERT W; *REGIONAL PETROLOGY AND STRUCTURE OF THE LOWER CRUST: A STUDY OF XENOLITHS FROM DIFFERENT TECTONIC ENVIRONMENTS (EAR-7919719*)*; 12 MONTHS $15,000

IFFLAND KAVANAGE WATERBURY/ELECS CALCULUS INC

KOSTRO, GEORGE, AND IFFLAND, JEROME S; *EARTHQUAKE HAZARD MITIGATION BY FRICTION CELL DAMPING (PFR-8009780)*; 6 MONTHS $23,750

QUEENS COLLEGE

AARONSON, SHELDON; *LIPIDS FROM MICROALGAE (PFR-7919669)*; 24 MONTHS $115,033

RENSSELAER POLYTECHNIC INSTITUTE

ATHANASIOU-GRIV, DIMITRIO; *RELIABILITY OF STRUCTURES RETAINING SOIL UNDER EARTHQUAKE LOADING (PFR-7905500)*; 24 MONTHS $116,210

STATE UNIVERSITY AT ALBANY

CIPRIANO, RAMON J, AND BLANCHARD, DUNCAN C; *THE RELATIVE IMPORTANCE OF JET AND FILM DROPS IN THE PRODUCTION OF THE MARINE AEROSOL AND LUNG-DEPOSITABLE BIOSOLS (ATM-7912144*)*; 12 MONTHS $15,000

STATE UNIVERSITY AT BINGHAMTON

WU, FRANCIS T; *U.S.- P. R. C. COOPERATIVE EARTHQUAKE RESEARCH: EARTHQUAKE GROUND MOTION STUDIES (PFR-8001805)*; 24 MONTHS $55,740

STATE UNIVERSITY AT BUFFALO

GOOD, ROBERT J; *CONTACT ANGLES, HETEROGENEITY AND ROUGHNESS OF SURFACES, IN THE ATTACHMENT OF BUBBLES TO MINERAL PARTICLES (CPE-7918245*)*; 24 MONTHS $20,000

STATE UNIVERSITY AT STONY BROOK

METCALF, HAROLD; *TIME RESOLVED EXCITED STATE SPECTROSCOPY (PHY-7916901*)*; 12 MONTHS $20,000

HAGER, BRADFORD H; *STUDY OF THE DYNAMICS OF SUBDUCTED SLABS (EAR-7919976*)*; 24 MONTHS $10,000

STEVEN WINTER ASSOCIATES INC

WINTER, STEVEN; *EARTHQUAKE RESISTANCE COSTS-BENEFITS OF FACTORYPRODUCED HOUSES AND MOBILE HOMES* (PFR-7917897); 12 MONTHS $90,216

SYRACUSE UNIVERSITY

BRUMBERGER, HARRY, AND GOODISMAN, JERRY; *NEW X-RAY METHODS FOR HETEROGENEOUS MULTIPHASE CATALYSTS* (CPE-7911779*); 24 MONTHS $36,000

UNIVERSITY OF ROCHESTER

SELL, RALPH R, AND MCMAHON, ANNE M; *MODELS OF MIGRATION IN THE U.S. 1975-77* (SES-7918589*); 20 MONTHS $27,334

WEIDLINGER ASSOCIATES

BARON, MELVIN L; *UNDERGROUND LIFELINES IN A SEISMIC ENVIRONMENT – PHASE II* (PFR-7815049 A02); 12 MONTHS $439,428

YESHIVA UNIVERSITY-ALBERT EINSTEIN COLLEGE OF MEDICINE

SPENCER, PETER S; *CHEMICAL THREATS TO MAN'S NERVOUS SYSTEM* (DAR-7812701 A01); 12 MONTHS $111,141

YESHIVA UNIVERSITY

FISHMAN, JOSHUA A; *MINORITY LANGUAGES IN THE U. S.* (BNS-7906055*); 12 MONTHS $24,958

NORTH CAROLINA

DUKE UNIVERSITY

MELOSH, ROBERT J; *DEVELOPMENT OF AN EARTHQUAKE ENGINEERING COMPUTER-BASED SYSTEM* (PFR-7905991); 12 MONTHS $101,489

KRAMER, PAUL J; *WORKSHOP ON THE IMPORTANCE OF WATER AND TEMPERATURE STRESS WITH RESPECT TO PLANT GROWTH AND YIELD IN HUMID TEMPERATE CLIMATES: FUTURE RESEARCH NEEDS* (PFR-8012152); 12 MONTHS $37,950

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

STODDARD, EDWARD F; *THE HALIFAX COUNTY COMPLEX: OCEANIC LITHOSPHERE IN THE EASTERN PIEDMONT OF NORTH CAROLINA* (EAR-7919735*); 12 MONTHS $10,000

TUNG, CHI C, AND TAYFUN, MEHMET A; *TSUNAMI RISK ANALYSIS* (PFR-8005553); 24 MONTHS $71,089

MATZEN, VERNON C; *RESEARCH INITIATION - INDIRECT DAMAGE ASSESSMENT OF TRUSSES SUBJECTED TO EARTHQUAKE LOADS* (PFR-8007189); 15 MONTHS $40,000

GUPTA, AJAYA K; *WORKSHOP ON SEISMIC PERFORMANCE OF LOW RISE BUILDINGS* (PFR-8014736); 12 MONTHS $7,700

NORTH DAKOTA

NORTH DAKOTA STATE UNIVERSITY MAIN CAMPUS

BOLIN, ROBERT; *THE IMPACT OF DISASTER AID PROGRAMS ON LONG-TERM FAMILY RECOVERY: A LONGITUDINAL COMPARISON OF A RURAL AND URBAN SITE* (PFR-7908959); 18 MONTHS $103,015

OHIO

CASE WESTERN RESERVE UNIVERSITY

GASPARINI, DARIO A; *PASSIVE CONTROL OF THE DYNAMIC RESPONSE OF STRUCTURES* (PFR-7911772); 18 MONTHS $61,776

CHARLES F KETTERING FOUNDATION-CHARLES F KETTERING RESEARCH LABORATORY

LAMBORG, MARVIN; *A MULTIFACETED APPROACH TO ENHANCING BIOLOGICAL NITROGEN FIXATION* (PFR-7727169 A02); 12 MONTHS $194,702

OHIO STATE UNIVERSITY

QUARANTELLI, ENRICO L; *DEVELOPMENT OF COLLABORATIVE UNITED STATES-JAPAN SOCIO-BEHAVIORAL DISASTER RESEARCH* (PFR-8009036); 12 MONTHS $30,630

WRIGHT STATE UNIVERSITY

GREGOR, C B; *CONFERENCE ON CHEMICAL CYCLES IN THE EVOLUTION OF THE EARTH, ANTIOCH COLLEGE, YELLOW SPRINGS, OHIO, MARCH 16 - 22, 1980* (EAR-7918390*); 12 MONTHS $4,000

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

PAYNE, DONNA L; *EFFECTS OF WHEAT BRAN PROCESSING ON HUMAN GASTROINTESTINAL FUNCTIONS* (PFR-8017738); 24 MONTHS $62,407

UNIVERSITY OF TULSA

ARIMAN, TEOMAN; *EARTHQUAKE RESPONSE AND ASEISMIC DESIGN OF UNDERGROUND PIPING SYSTEMS* (PFR-8006372); 12 MONTHS $39,900

OREGON

OREGON GRADUATE CENTER

BELL, ANTHONY E, AND SWANSON, LYNWOOD W; *LIQUID METAL FIELD ION SOURCE DEVELOPMENT AND CHARACTERIZATION* (ECS-7919449*); 24 MONTHS $60,000

OREGON STATE UNIVERSITY

SMITH, KENNAN T; *MATHEMATICAL ASPECTS OF DIVERGENT BEAM RADIOGRAPHY* (MCS-7906030 A01*); 12 MONTHS $10,000

LEKLEM, JAMES E; *EFFECT OF PROCESSING ON NUTRITIVE CONTENT AND BIOAVAILABILITY OF SELECTED NUTRIENTS IN COMMONLY CONSUMED FOODS* (PFR-7919119 A01); 12 MONTHS $87,004

WARD, A K, AND CUMMINS, KENNETH W; *FUNCTION OF NOETOC IN OREGON STREAMS* (DEB-7921444*); 24 MONTHS $25,000

BAROSS, JOHN A, AND GORDON, LOUIS I; *DISSOLVED GASES IN MARINE WATERS: CHEMICAL AND MICROBIOLOGICAL PARAMETERS EFFECTING FORMATION, UTILIZATION AND NATURAL FLUXES* (OCE-7927018*); 12 MONTHS $15,000

GATES, W L, EBBESEN, STEVEN, HAN, YOUNG J, SCHLESINGER, MICHAEL E, AND KIM, JEONG-WOO; *RESEARCH ON THE DYNAMICS OF CLIMATE* (ATM-8001702*); 6 MONTHS $93,000

UNIVERSITY OF OREGON - EUGENE

BRISCOE, JOHN L; *RESEARCH INITIATION - EARTHQUAKE FORCES ON BUILDINGS: A WORKBOOK PRIMER FOR ARCHITECTS* (PFR-8007140); 15 MONTHS $40,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

OPPENHEIM, IRVING J; *FIRE LOSS IN EARTHQUAKES* (PFR-7913350); 12 MONTHS $124,111

CHRISTIANO, PAUL P; *SEISMIC BEHAVIOR OF CELLULAR COFFER DAMS* (PFR-8006791*); 12 MONTHS $64,938

WHITTAKER, W L; *RESEARCH INITIATION - FOUNDATION FLEXIBILITY EFFECTS IN SEISMIC SUPER-STRUCTURE-SUBGRADE INTERACTIONS* (PFR-8007090); 15 MONTHS $39,940

FRANKLIN INSTITUTE

HINDMAN, BARBARA E; *WORKING CONFERENCE ON NUTRITION AND BEHAVIOR: NEW RESEARCH DIRECTIVES* (PFR-7919650 A02); 6 MONTHS $5,855

LEHIGH UNIVERSITY

LU, LE-WU; *UNITED STATES-REPUBLIC OF CHINA RESEARCH IN EARTHQUAKE ENGINEERING - PART II* (PFR-7709470 A02); 4 MONTHS $5,395

BEEDLE, LYNN S; *TALL BUILDINGS AND URBAN HABITAT: IMPACT ON THE URBAN ENVIRONMENT AND PLANNING FOR NATURAL DISASTERS* (PFR-7916234 A01); 12 MONTHS $179,935

MANSON, JOHN A; *NEW POLYMERS BASED ON VEGETABLE OILS* (PFR-7917108 A01); 12 MONTHS $66,275

LU, LE-WU; *U. S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: DESIGN AND PRELIMINARY EXPERIMENTAL STUDIES FOR THE RECOMMENDED STRUCTURAL STEEL TEST BUILDING* (PFR-8003137); 12 MONTHS $39,700

POLYSCIENCES INC

HALPERN, B DAVID; *THE EFFECT OF CHEMICAL MODIFICATION OF BONE CEMENTS ON THEIR YOUNG'S MODULI* (PFR-8008911); 6 MONTHS $24,965

TEMPLE UNIVERSITY

ULMER, GENE C; *THE ROLE OF OXYGEN FUGACITY IN THE PETROGENESIS OF THE PLATINIFEROUS ZONES OF THE STILLWATER COMPLEX, MONTANA* (EAR-7916338*); 12 MONTHS $5,000

UNIVERSITY OF PENNSYLVANIA

KOROTOFF, EDWARD; *IDENTIFICATION OF THE RELEVANT PARAMETERS AND THEIR MAGNITUDES FOR ELECTRICAL STIMULATION OF BONE REMODELING* (PFR-8008137); 12 MONTHS $101,169

UNIVERSITY OF PITTSBURGH

TORKAMANI, MORTEZA A; *DESIGN OF MULTI-STORY BUILDINGS BY COMPONENT MODE SYNTHESIS* (PFR-8001506*); 12 MONTHS $32,859

RHODE ISLAND

GORDON RESEARCH CONFERENCES

KIRK, T K; *GORDON RESEARCH CONFERENCES, CHEMICALS AND MATERIALS FROM RENEWABLE RESOURCES* (PFR-7935469); 6 MONTHS $2,380

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

BENDER, MICHAEL L; *PORE WATER CHEMISTRY OF MOUNDS ABYSSAL HYDROTHERMAL FIELD SEDIMENTS* (OCE-7911137*); 12 MONTHS $10,000

SOUTH CAROLINA

CLEMSON UNIVERSITY

BROWN, RUSSELL H; *CYCLIC RESPONSE OF MASONRY ANCHOR BOLTS* (PFR-7806086 A01); 20 MONTHS $87,220

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

RADZIMINSKI, JAMES B; *CYCLIC MOMENT CHARACTERISTICS OF SEMI-RIGID STEEL BEAM-COLUMN CONNECTIONS* (PFR-7915139); 18 MONTHS $62,916

TEXAS

MCCLELLAND ENGINEERS INC

KAGAWA, TAKAAKI; *SEISMIC PILE-SOIL-PILE INTERACTION IN LATERAL VIBRATION MODE* (PFR-8001180); 12 MONTHS $71,973

SOUTHERN METHODIST UNIVERSITY

MOHRAZ, BIJAN; *A STUDY OF POWER SPECTRAL DENSITY OF THE RECORDED EARTHQUAKE ACCELEROGRAMS* (PFR-8002[1]); 24 MONTHS $68,752

TEXAS A & M UNIVERSITY

BENEDICT, CHAUNCEY R; *THE REGULATION OF RUBBER FORMATION IN GUAYULE PARTHENIUM ARGENTATUM PLANTS* (PFR-7902[5] A01*); 12 MONTHS $34,865

FLIPSE, JOHN E; *WORKSHOP ON DEEP OCEAN MINING RESEARCH REQUIREMENTS FOR THE 1980'S, COLLEGE STATION, TEXAS, MAY 29 - 30, 1980* (CME-7910-25*); 12 MONTHS $10,000

TEXAS TECH UNIVERSITY

MINOR, JOSEPH E; *DEVELOPMENT OF A UNIFIED APPROACH TO THE DESIGN OF WINDOW GLASS IS SUBJECTED TO DYNAMIC FORCES* (PFR-7716[3] A02); 12 MONTHS $128,456

UNIV OF TEXAS AT AUSTIN

BOEHMER, JOSE M, STOKOE, KENNETH H, AND WRIGHT, STEPHEN G; *DYNAMIC STIFFNESS OF PILE FOUNDATIONS* (PFR-7809804); 24 MONTHS $209,773

SPANOS, POL; *RESPONSE STATISTICS DUE TO EARTHQUAKES WITH EVOLUTIONARY SPECTRA* (PFR-8006[4]); 24 MONTHS $66,275

JURSA, JAMES O, AND KLINGNER, RICHARD E; *U S-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: FULLSCALE TESTS OF BEAM-COLUMN JOINTS* (PFR-8008[6]); 12 MONTHS $75,832

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

MORGAN, JAMES R; *RESEARCH INITIATION - SEISMIC CONSIDERATIONS FOR COMPLIANT OFFSHORE STRUCTURES* (PFR-8006[4]); 15 MONTHS $96,936

UTAH

NATIVE PLANTS INC

OSTLER, W KENT; *INVESTIGATION OF A NEW SOURCE OF NATURAL RUBBER IN THE UNITED STATES* (PFR-8006[6]); 6 MONTHS $24,999

VIRGINIA

GEOLOGICAL SURVEY

BORCHERDT, ROGER; *THE NATIONAL STRONG-MOTION PROGRAM* (PFR-7707[3] A08); 12 MONTHS $1,100,000

KAPPA SYSTEMS INC

DARNELL, WILLIAM G; *CONTINUATION AND IMPROVEMENT OF THE EXTERNAL PRODUCT EVALUATION SYSTEM* (PRA-8007[4]*); 12 MONTHS $30,000

NATIONAL TECHNICAL INFORMATION SERVICE

JOSEPH, MELVIN J; *COMPREHENSIVE INFORMATION SERVICES TO INCLUDE DOCUMENT PROCESSING, ANNOUNCEMENT, AND DISTRIBUTION SERVICES IN PAPER COPY AND MICROFICHE, AND BIBLIOGRAPHIC DATA SEARCH SERVICES* (EAS-7[80]3); A08); 12 MONTHS $99,999

UNIVERSITY OF VIRGINIA

NORDSTROM, DARRELL K; *KINETIC, HYDROPIC, AND MICROBIAL INVESTIGATION OF SULFIDE MINERAL OXIDATION AND ACID MINE WATER FORMATION* (EAP-7911[4]*); 12 MONTHS $59,998

VIRGINIA POLYTECHNIC INSTITUTE

GLASSER, WOLFGANG G; *ENZYMATIC TRANSFORMATIONS OF LIGNIN* (PFR-7910[3] A01); 12 MONTHS $109,721

DEBAI, C S; *CYCLIC STRESS-STRAIN PARAMETERS OF SOIL STRUCTURE INTERFACES FOR EARTHQUAKE DESIGN OF STRUCTURES* (PFR-7910[6]); 24 MONTHS $138,771

KOSSLUND, MARY K; *BIOAVAILABILITY TO HUMANS OF METHIONINE SULFOXIDE AND METHIONINE SULFONE FROM PROCESSED PROTEIN FOODS* (PFR-7910[1]); 12 MONTHS $98,413

WASHINGTON

BATTELLE MEMORIAL INSTITUTE-BATTELLE HUMAN AFFAIRS RESEARCH CENTERS

PERRY, RONALD W; *FACTORS AFFECTING THE DESIGN AND IMPLEMENTATION OF COMMUNITY DISASTER EVACUATION PLANS* (PFR-7710[8] A08*); 6 MONTHS $15,000

UNIVERSITY OF WASHINGTON

SARKANEN, KYOSTI V; *CHEMICALS FROM WESTERN HARDWOODS AND AGRICULTURAL RESIDUES* (PFR-7709[3] A02); 3 MONTHS $62,200

GREGG, MICHAEL C; *THE FILTERING OF OCEANIC TEMPERATURE AND CONDUCTIVITY DATA FOR FINESTRUCTURE STUDIES* (OCE-7910[6] A01*); 12 MONTHS $34,000

SHERIF, MOHMET A; *DYNAMIC EARTH PRESSURES USING SHAKING TABLE* (PFR-7909[3]); 24 MONTHS $170,000

DEVOL, ALLAN H; *STUDIES OF BIOCHEMICAL OXIDATION RATES IN MARINE SEDIMENTS* (OCE-7910[3]*); 12 MONTHS $30,000

AHMED, SAIYED I; *COMPARATIVE STUDIES OF ENZYMES INVOLVED IN AMMONIA-N ASSIMILATION INTO AMINO ACIDS IN SEVERAL SPECIES OF MARINE PHYTOPLANKTON* (OCE-7910[5]*); 12 MONTHS $30,000

RADIKE, LAWRENCE F, AND HOBBS, PETER V; *AIRBORNE STUDIES OF ANTARCTIC AEROSOLS: VOLCANIC, MARINE AND ANTHROPOGENIC* (DPP-7930[7] A01*); $80,000

WASHINGTON STATE UNIVERSITY

ROBERTS, MARSHA L; *THE IMPACT OF VOLCANIC ASH FALLOUT ON EASTERN WASHINGTON PERCEPTIONS AND BEHAVIORS RELATED TO HEALTH AND HOUSING* (PFR-8008[7]); 3 MONTHS $31,584

HALLAGAN, WILLIAM; *ESTIMATING THE COST OF COMMUNITY ASH CLEANUP* (PFR-8008[7]); 3 MONTHS $9,108

KARTES, JACK D; *ADAPTIVE RESPONSE TO TRANSPORTATION SERVICE INTERRUPTION BY VOLCANIC FALLOUT* (PFR-8008[7]); 3 MONTHS $8,736

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

GANGARAO, HOTA V; *THEORETICAL AND EXPERIMENTAL STUDIES ON TIMBER DIAPHRAGMS SUBJECTED TO EARTHQUAKE MOTIONS* (PFR-7906[9] A01); 12 MONTHS $58,965

SKALA, ROGER K; *RESEARCH INITIATION - A PRELIMINARY EVALUATION OF THE LIQUEFACTION AND CYCLIC MOBILITY BEHAVIOR OF FINE COAL REFUSE TAILINGS* (PFR-8001[6]); 15 MONTHS $46,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

NORRIS, DALE M; *ISOLATION OF LIGNICELLULOSE TRANSFORMING MICROORGANISMS* (PFR-7704[7] A03); 12 MONTHS $100,000

LAGALLY, MAX G; *CRYSTALLOGRAPHIC DETERMINATION OF LIGNIFICATIONS TO ORDER IN SURFACES AND OVERLAYERS* (DMR-7901[7] A01*); 12 MONTHS $55,000

GERLOFF, GERALD C; *EFFICIENCY IN PHOSPHORUS UPTAKE AND DISTRIBUTION BY PLANTS* (PCM-7[8]0[8]*); 12 MONTHS $30,000

ERIKSS, J G; *BIOLOGICAL SYSTEMS FOR LIGNICELLULOSE CONVERSION* (PFR-7910[6] A02); 12 MONTHS $70,740

CLAY, CLARENCE S; *SIGNAL ENHANCEMENT FOR TIME DOMAIN ELECTROMAGNETIC SOUNDINGS* (EAR-7910[7]*); 12 MONTHS $5,000

TAYLOR, JAMES W, MARGARITONDO, GIORGIO, AND FISHER, CARLTON D; *GAS PHASE AND ULTRAVIOLET VACUUM SPECTROSCOPY ON A WINDOWLESS BEAM LINE* (DMR-7910[3]*); 12 MONTHS $30,000

SCHRAG, JOHN L; *MOTIONS AND CONFORMATIONAL PROPERTIES OF MACROMOLECULES IN SOLUTION* (DMR-7910[9]*); 12 MONTHS $90,000

CLAY, CLARENCE S; *VIBRONED MEASUREMENTS ON THE NORTH AMERICAN CRATON* (EAR-7910[7]*); 12 MONTHS $30,000

VANDERHEIDEN, GREGG C; *PI [illegible] VARIATIONS FOR STANDARD INTERCONNECTIONS WORKSHOPS* (PFR-8006[7]); 6 MONTHS $14,730

APPLIED RESEARCH

ALABAMA

SAMFORD UNIVERSITY

MC GOVERN, F E; *USE OF EXPERTS BY ALABAMA SUPREME COURT* (DAR-8010[1]); 24 MONTHS $100,000

UNIVERSITY OF ALABAMA

PITTMAN, CHARLES U; *HOMER ALUMINA, PRODUCTION DEVELOPMENT OF IMPROVED CATALYST SYSTEMS* (DAR-7910[6]); A01; 12 MONTHS $51,039

ARIZONA

ARIZONA STATE UNIVERSITY

COX, STEVEN R, AND PULASKI, CHARLES A; *THE MARKET EFFECTS OF LAWYER ADVERTISING* (DAR-7917[5]); 18 MONTHS $100,000

UNIVERSITY OF ARIZONA

MINIS, WILLIAM P; *BREEDING AND UTILIZATION OF THE BUFFALO GOURD* (DAR-8004[1]); 24 MONTHS $149,749

CALIFORNIA

APPLIED FORECASTING & ANALYSIS INC

CROW, ROBERT T; *SUPPLY-ORIENTED REGIONAL MACROECONOMETRIC FORECASTING MODEL* (DAR-8005[1]); 6 MONTHS $54,500

CALIFORNIA INSTITUTE OF TECHNOLOGY

WILDE, LOUIS L; *INTERVENING IN MARKETS ON THE BASIS OF IMPERFECT INFORMATION: AN INFORMATION THEORETIC APPROACH* (SES-8010[8]*); 12 MONTHS $64,520

ENERGY RESOURCES COMPANY INC (ENERGY RESOURCES CO INC) CALIFORNIA

BERRIS, STEPHEN L; *HALOCARBON EMULSION AS SAFE AND EFFECTIVE HYDROLOGICAL TRACERS* (DAR-8008[3]); 6 MONTHS $59,850

LITTON INC

TESCHE, CLAUDIA D; *A NOVEL SUPERCONDUCTING MAGNETOMETER WITH QUANTUM NOISE LIMITED SENSITIVITY AND ENHANCED COUPLING PROPERTIES* (DAR-8008[6]); 6 MONTHS $54,872

SRI INTERNATIONAL CORPORATION

ALTES, RICHARD A; *DETECTION AND IDENTIFICATION OF FISH SCHOOLS FROM SONAR ECHOES* (DAR-8008[6]); 6 MONTHS $54,000

PACIFIC OCEAN FARMS LTD

SHAFER, NATE; *OFFSHORE ABALONE FARM RESEARCH PROJECT* (DAR-8007[7]); 6 MONTHS $25,000

RAND CORPORATION

ACTON, JAN P; *REGULATORY AND DISTRIBUTIONAL CONSEQUENCES OF ALTERNATIVE ELECTRICITY RATES (DAR-8012664)*; 24 MONTHS $128,765

MITCHELL, BRIDGER M; *PRICING OF LOCAL TELEPHONE SERVICE-PHASE II (DAR-8016288)*; 24 MONTHS $199,527

SAN DIEGO STATE UNIVERSITY

AWBREY, FRANK T; *ARTIFICIAL AGGREGATING SYSTEMS FOR TUNA PURSE SEINING (DAR-7824876)*; 12 MONTHS $123,216

SPECTRON DEVELOPMENT LABORATORIES INC

HILDEBRAND, B P; *NEAR SURFACE FLAW DETECTION BY ULTRASONIC CRITICAL ANGLE IMAGING (DAR-8009279)*; 6 MONTHS $24,723

SRI INTERNATIONAL

NITZAN, DAVID; *MACHINE INTELLIGENCE RESEARCH APPLIED TO INDUSTRIAL AUTOMATION (DAR-7827128 A01)*; 12 MONTHS $210,083

HILDENBRAND, DONALD L; *TRACE ELEMENT DISTRIBUTION IN COPPER SMELTING (DAR-7912296 A01)*; 12 MONTHS $80,428

BOLLES, ROBERT C; *CONSTRUCTION OF SIMPLE 3-DIMENSIONAL COMPUTER PART MODELS BASED ON VISUAL RANGE AND INTENSITY DATA FOR LOCATING INDUSTRIAL PARTS (DAR-7922248)*; 24 MONTHS $134,990

STANFORD UNIVERSITY

MC CARTHY, JOHN; *EXPLORATORY RESEARCH IN INTEGRATED PROGRAMMABLE AUTOMATION (DAR-7815914 A01)*; 6 MONTHS $15,932

NUR, AMOS M; *APPLICATION OF ROCK PHYSICS TO BOREHOLE STUDIES (DAR-7917979)*; 18 MONTHS $93,180

BERNANKE, BEN; *CREDIT RATIONING, LIQUIDITY, AND THE MACROECONOMY (DAR-8007779)*; 12 MONTHS $27,933

TAYLOR SYSTEMS ENGINEERING INC

KERTH, WILLIAM J; *ADAPTIVE WELDING SYSTEM (DAR-8009700)*; 6 MONTHS $24,849

UNIVERSITY OF CALIFORNIA, BERKELEY

EVANS, JAMES W; *AN INVESTIGATION OF AN IMPROVED ELECTRODE (THE FLUIDIZED BED ELECTRODE) FOR THE PRODUCTION OF COBALT BY ELECTROWINNING (DAR-7724398 A03)*; 12 MONTHS $57,242

DORNFELD, DAVID; *TOOL WEAR SENSING VIA ACOUSTIC EMISSION ANALYSIS (DAR-7917396)*; 24 MONTHS $87,490

VOLKMAN, LOY E; *ASSESSMENT OF THE INFECTIVITY OF A PESTICIDAL VIRUS IN NON-TARGET HOSTS (DAR-8006431*)*; 24 MONTHS $88,736

UNIVERSITY OF CALIFORNIA, DAVIS

SEGALL, HENRY J; *THE DETECTION OF PYRROLIZIDINE ALKALOIDS AND THEIR METABOLITES (DAR-7906924 A02*)*; 12 MONTHS $49,606

EPSTEIN, EMANUEL, QUALSET, CALVIN O, AND SCHALLER, C W; *DEVELOPMENT OF CROPS TOLERANT OF SALINE SOILS AND WATER (DAR-7917671 A01)*; 12 MONTHS $115,127

DOWNS, GEORGE; *MODELING MUNICIPAL RESPONSE TO REVENUE CONSTRAINTS (DAR-8011208)*; 24 MONTHS $34,893

HUNGATE, R E, LABAVITCH, J M, AND VALENTINE, RAYMOND C; *BIOCHEMISTRY AND GENETICS OF CONVERSION OF THE PLANT POLYSACCHARIDES BY ANAEROBIC BACTERIA (DAR-8011571)*; 12 MONTHS $110,194

UNIVERSITY OF CALIFORNIA, RIVERSIDE

MENGE, JOHN A, AND JARRELL, WESLEY M; *THE EFFECT OF VESICULAR-ARBUSCULAR MYCORRHIZAE ON SALT TOLERANCE OF TOMATO (DAR-7924781)*; 36 MONTHS $80,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

BAILEY, FREDERICK G; *LIMITED ENTRY AND THE AMERICAN FISHERMAN: A CASE STUDY OF THE BRISTOL BAY, ALASKA SALMON FISHERY (DAR-7917582)*; 18 MONTHS $83,432

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO-SCHOOL OF MEDICINE

KAUFMAN, LEON; *TECHNIQUES FOR POSITRON TOMOGRAPHY WITH TIME-OF-FLIGHT AND HIGH SPATIAL AND ENERGY RESOLUTION (DAR-7909606 A01)*; 12 MONTHS $115,623

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

BIELBY, WILLIAM T, AND BARON, JAMES N; *JOBS, FIRMS AND INDUSTRIES: ECONOMIC DUALISM AND THE ORGANIZATION OF WORK (DAR-7924905*)*; 12 MONTHS $77,441

HOLMES, WILLIAM N; *EFFECTS OF TOXIC METABOLITES DERIVED FROM INGESTED PETROLEUM ON SOME HORMONAL REGULATING MECHANISMS IN SEABIRDS (DAR-8007865*)*; 36 MONTHS $79,466

UNIVERSITY OF SOUTHERN CALIFORNIA

YEN, TEH FU; *A STUDY OF THE STRUCTURE PARAMETERS ON THE CARBONACEOUS MESOPHASE FORMATION FOR COKE AND GRAPHITE (DAR-8008755)*; 36 MONTHS $150,000

COLORADO

COLORADO SCHOOL OF MINES

KLUSMAN, RONALD W; *A COMPARISON OF GAS TECHNIQUES USEFUL IN GEOCHEMICAL EXPLORATION AND ANALYSIS OF TIME VARIATION IN GAS EMISSION (DAR-8008106)*; 15 MONTHS $23,575

COLORADO STATE UNIVERSITY

VAN DYNE, GEORGE M; *PREDICTION OF GRAZINGLAND PRODUCTIVITY UNDER CLIMATIC VARIATIONS (DAR-7817243 A02)*; 12 MONTHS $109,847

COOK, C WAYNE; *ALTERNATE RED MEAT PRODUCTION SYSTEMS (DAR-8007778)*; 10 MONTHS $30,256

HAZEN RESEARCH INC

SHAW, DOUGLAS; *BY-PRODUCT MOLYBDENUM RECOVERY (DAR-8010576)*; 6 MONTHS $24,900

INSTITUTE FOR COURT MANAGEMENT

MAHONEY, BARRY, AND NEJELSKI, PAUL; *EVALUATION OF TELEPHONE CONFERENCING TO CONDUCT MOTION HEARINGS IN CIVIL LITIGATION (DAR-7924211)*; 10 MONTHS $29,880

IONEX RESEARCH CORPORATION

DE HAAN, JAMES R; *ALTERNATIVE SILVER ZEOLITE CONCEPTS (DAR-8010586)*; 6 MONTHS $25,000

UNIVERSITY OF DENVER

WIRTH, MICHAEL D, AND BLOCH, HARRY; *DEMAND FOR PAY TELEVISION AND ITS IMPACT ON EXPANSION OF CABLE AVAILABILITY (DAR-7924423)*; 12 MONTHS $46,560

CONNECTICUT

YALE UNIVERSITY

HAKUTA, KENJI; *BILINGUALISM, COGNITIVE FLEXIBILITY, AND SOCIAL-COGNITIVE SKILLS IN CHILDREN (DAR-8010860)*; 15 MONTHS $35,000

FELNER, ROBERT D; *STRESS AND LIFE TRANSITIONS IN CHILDHOOD: PARENTAL DIVORCE (DAR-8011001)*; 12 MONTHS $34,999

DELAWARE

UNIVERSITY OF DELAWARE

STREICHER, MICHAEL A; *THE RELATIONSHIP BETWEEN CORROSION OF STAINLESS ALLOYS AND ELECTROCHEMICAL MEASUREMENTS (DMR-8011981*)*; 12 MONTHS $25,000

DISTRICT OF COLUMBIA

BROOKINGS INSTITUTION

PERRY, GEORGE L; *THE BROOKINGS PANEL ON ECONOMIC ACTIVITY (SES-8008056*)*; 12 MONTHS $75,000

GEORGE WASHINGTON UNIVERSITY

KAUFMAN, ROGER E; *KINSYN III-D (DAR-7910176)*; 24 MONTHS $122,316

GEORGETOWN UNIVERSITY

GELLER, DANIEL M; *ADAPTATION TO AND EVALUATION OF VISUAL FEATURES IN THE URBAN ENVIRONMENT (DAR-8011228)*; 18 MONTHS $32,649

INTERNATIONAL CITY MANAGEMENT ASSOCIATION

GROVES, SANFORD M; *ASSESSING MUNICIPAL FINANCIAL CONDITION AND IMPROVING FINANCIAL MANAGEMENT PRACTICES (DAR-7918320 A01)*; 3 MONTHS $33,000

KOBA ASSOCIATES INC

BROWN, RICHARD A; *CONDITIONS FORECAST: ECONOMIC SECURITY AND PRODUCTIVITY OF BLACK AGED IN THE YEAR 2000 (DAR-7683410 A03)*; 2 MONTHS $16,650

NATIONAL ACADEMY OF SCIENCES

MROZINSKI, ROMAN V; *BOARD ON TELECOMMUNICATIONS COMPUTER APPLICATIONS (DAR-8008617)*; 12 MONTHS $20,000

PUBLIC INTEREST ECONOMICS FOUNDATION (PIEF)

FERGUSON, ALLEN R; *A CONFERENCE ON EVALUATION OF REGULATORY RESEARCH (DAR-7720477 A03)*; 6 MONTHS $8,349

FLORIDA

NOVA UNIVERSITY-OCEAN SCIENCE CENTER

MENZIES, ROBERT A; *PATTERNS OF LARVAL DISPERSAL OF THE CRUSTACEAN PANULIRUS ARGUS (DAR-8009353)*; 36 MONTHS $180,000

UNIVERSITY OF FLORIDA-FLORIDA STATE MUSEUM

DEEVEY, EDWARD S; *VULNERABILITY OF FLORIDA WATERSHEDS TO RIPARIAN DISTURBANCE (DAR-7924812)*; 24 MONTHS $160,222

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

BERRY, JOHN T; *A COMPUTER AIDED DESIGN SYSTEM FOR CASTINGS (DAR-7824301 A01)*; 12 MONTHS $94,987

GOULD, JOSEPH P; *PRODUCTS OF THE CHLORINATION AND OZONOLYSIS OF SYNTHETIC DYES (DAR-7925722)*; 24 MONTHS $134,202

HAWAII

TERRY M AND SARI K ASTRO

ASTRO, TERRY M; *COMMERCIAL POTENTIAL OF SEX REVERSAL ON HYBRID TILAPIA (DAR-8009881)*; 6 MONTHS $22,486

ILLINOIS

LOYOLA UNIVERSITY OF CHICAGO

MAYZNER, MARK S, AND APPELMAN, IRA B; *A TECHNOLOGY FOR INCREASING THE DISCRIMINABILITY OF SYMBOL SETS (DAR-7923477*)*; 36 MONTHS $150,000

NATIONAL OPINION RESEARCH CENTER

WINSHIP, CHRISTOPH; *JOB MOBILITY AND YOUTH UNEMPLOYMENT (DAR-7917585)*; 24 MONTHS $105,863

HECKMAN, JAMES J; *RACIAL WAGES AND EMPLOYMENT IN SOUTH CAROLINA INDUSTRIAL LABOR MARKETS: 1910-1978 (DAR-7925924)*; 18 MONTHS $163,139

NORTHWESTERN UNIVERSITY

MAHAR, THOMAS J; *APPROXIMATE SOLUTION OF NONLINEAR PROBLEMS IN APPLIED MATHEMATICS (MCS-7902541 A01*)*; 36 MONTHS $16,259

HAKKIO, CRAIG S; *RISK PREMIUMS, INNOVATIONS AND MULTIPLE CURRENCIES IN THE FOREIGN EXCHANGE MARKET (DAR-8011371)*; 24 MONTHS $34,983

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

PARKINSON, MICHAEL G; *JUROR REACTIONS TO VARIATIONS IN COURTROOM SPEECH (DAR-8011223)*; 24 MONTHS $33,038

SEROKA, JAMES H; *THE ADMINISTRATION OF PUBLIC POLICY DECISIONS IN RURAL COUNTY GOVERNMENT INSTITUTIONS (DAR-8011232)*; 23 MONTHS $33,939

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

ROSTOKER, W; *STUDY OF FAMILY OF CR-FREE, RUST-RESISTANT AND OXIDATIONRESISTANT STEELS (DAR-7921210)*; 36 MONTHS $159,616

UNIVERSITY OF ILLINOIS AT URBANA

NEWELL, KARL M; *KINEMATIC AND KINETIC PARAMETERS AS INFORMATION FEEDBACK IN MOTOR SKILL LEARNING (DAR-8016287)*; 36 MONTHS $149,992

INDIANA

BALL STATE UNIVERSITY

WHITE, MICHAEL J; *COMPARISONS OF COGNITIVE MAP ACCURACY AND AFFECTIVE STATE (DAR-8011900)*; 12 MONTHS $33,808

PURDUE UNIVERSITY

SWEENEY, DONALD W; *INFRARED HOLOGRAPHIC OPTICAL ELEMENTS WITH APPLICATIONS TO LASER MATERIAL PROCESSING (DAR-7720684 A01)*; 24 MONTHS $178,239

IOWA

UNIVERSITY OF IOWA

SZAFRAN, ROBERT F; *THE ORGANIZATIONAL CONTEXT OF SEX DISCRIMINATION IN UNIVERSITIES AND COLLEGES (DAR-8010762)*; 22 MONTHS $35,000

FISHER, PETER S; *PUBLIC SERVICE PROVISION ON THE URBAN FRINGE: ALTERNATIVE INSTITUTIONS AND THE PATTERN OF DEVELOPMENT (DAR-8011880)*; 13 MONTHS $34,952

KENTUCKY

UNIVERSITY OF KENTUCKY

LOWERY, CAROL R; *DIVORCING PARENTS: DECISIONS ABOUT CHILD CUSTODY AND ATTITUDES TOWARD COURT ALTERNATIVES (DAR-8011003)*; 22 MONTHS $35,000

LOUISIANA

TULANE UNIVERSITY

MCBRIDE, MARK E; *THE EXTENT OF ECONOMIES OF VERTICAL INTEGRATION IN THE OIL INDUSTRY (DAR-8024470)*; 2- MONTHS $32,963

MAINE

FIBER MATERIALS INC

NELSON, DANIEL C; *INVESTIGATION OF THE SUPER PLASTIC DRAWING OF ACRYLIC FIBERS (DAR-8009869)*; 6 MONTHS $23,900

UNIVERSITY OF MAINE, ORONO

STANLEY, JON G, AND HIDU, HERBERT; *REPRODUCTION AND GROWTH IN POLYPLOID FISH AND OYSTERS (DAR-7917029)*; 24 MONTHS $119,892

MARYLAND

CAPITAL SYSTEMS GROUP INC

CLANSKEY, KENNETH B; *SUPPORT SERVICES FOR RESEARCH INFORMATION PROCESSING AND DISSEMINATION PROGRAMS (EAS-8020049*)*; 12 MONTHS $108,054

EMV ASSOCIATES INC

MCALEAR, JAMES H; *ELECTRON BEAM LITHOGRAPHY OF PROTEIN MONOLAYER, ULTRATHIN COMPOSITE RESIST FILMS (DAR-8009745)*; 6 MONTHS $24,305

T S ASSOCIATES INC

SUNDARAM, T R; *SUSPENDED SOLIDS REMOVAL USING CROSS-FLOW, IN-DEPTH FILTRATION (DAR-8010543)*; 6 MONTHS $25,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

CROPPER, MAUREEN L; *VALUING THE HEALTH EFFECTS OF AIR POLLUTION (DAR-8022374)*; 12 MONTHS $43,803

HULA, RICHARD C; *HOUSING, LENDING INSTITUTIONS AND PUBLIC POLICY (DAR-8024325)*; 12 MONTHS $34,966

MASSACHUSETTS

ANALYSIS AND INFERENCE INC

WEISBERG, HERBERT; *THE APPLICATION OF MODERN STATISTICAL PRINCIPLES TO AUTOMOBILE INSURANCE RISK CLASSIFICATION (DAR-8008465)*; 18 MONTHS $109,329

BOSTON UNIVERSITY

ROSENTHAL, STEPHEN R; *IPA MOBILITY ASSIGNMENT (STEPHEN ROSENTHAL) (DAR-7818859 A01)*; 12 MONTHS $6,101

CASTLE TECHNOLOGY CORPORATION

PEMSLER, J P; *ELECTROREFINING OF ALUMINUM (DAR-8009300)*; 6 MONTHS $25,000

CHARLES STARK DRAPER LABORATORY INC

WHITNEY, DANIEL E; *PARTS MATING THEORY FOR COMPLIANT PARTS (DAR-7910341 A01)*; 12 MONTHS $108,023

DEFAZIO, THOMAS L; *FEEDBACK IN ROBOTICS FOR ASSEMBLY AND MANUFACTURING (DAR-7918530)*; 24 MONTHS $200,000

CRYSTAL SYSTEMS INC

SCHMID, FREDERICK; *GROWTH OF LASER CRYSTALS BY THE HEAT EXCHANGER METHOD (DAR-8018284)*; 24 MONTHS $210,000

ENERGY & ENVIRONMENTAL ENGINEERING INC

BARON, ROBERT; *INVESTIGATION OF IN-SITU GELATION TO CONTROL EMISSIONS FROM ABANDONED HAZARDOUS WASTE SITES (DAR-8009895)*; 6 MONTHS $24,856

GENERAL IONEX CORPORATION

PURSER, KENNETH H; *RESEARCH ON THE FEASIBILITY OF A MULTICHANNEL ULTRASENSITIVE ANALYZER FOR MINERAL RESOURCES (DAR-8009568)*; 6 MONTHS $25,000

HARVARD UNIVERSITY

JORGENSON, DALE W; *ENERGY AND ECONOMIC GROWTH IN THE UNITES STATES AND JAPAN (DAR-8008824)*; 12 MONTHS $85,195

IONOMET COMPANY

GOLDBERG, GERSHON M; *HIGH SPEED UV AND ELECTRON RESIST SYSTEM (DAR-8018036*)*; 24 MONTHS $91,433

MARINE BIOLOGICAL LABORATORY

HOBBIE, JOHN E, PETERSON, BRUCE J, AND BOWLES, FRANCIS P; *ECOLOGICAL PRINCIPLES APPLIED TO PREDICTION OF WATER QUALITY IN DRAINAGE BASINS (DAR-7828101 A01)*; 12 MONTHS $150,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

GERSHWIN, STANLEY B, AND ATHANS, MICHAEL; *SYSTEMS ASPECTS OF FLEXIBLE AUTOMATED MANUFACTURING NETWORKS (DAR-7817826 A02)*; 12 MONTHS $217,020

JACOBY, HENRY D, AND ADELMAN, MORRIS A; *CARTEL BEHAVIOR AND EXHAUSTIBLE RESOURCE SUPPLY: A CASE STUDY OF THE WORLD OIL MARKET (DAR-7819044 A01)*; 24 MONTHS $149,922

COHEN, DAVID, AND CUFFIN, B N; *USING THE MEG TO LOCALIZE SOURCES IN THE CORTEX (DAR-7910064 A01)*; 12 MONTHS $99,065

COOK, NATHAN H; *COMPUTERIZED SYSTEM FOR THE MANUFACTURE OF SMALL PARTS (DAR-7914593)*; 24 MONTHS $157,000

DEMAIN, ARNOLD L; *IN VITRO BIOSYNTHESIS OF PENICILLIN AND CEPHALOSPORIN ANTIBIOTICS (DAR-7919493)*; 36 MONTHS $210,490

MORGENTHALER, FREDERIC R; *MICROWAVE SIGNAL PROCESSING WITH COHERENT MAGNETIC WAVES (DAR-8008628)*; 36 MONTHS $118,883

HAUS, HERMANN A; *PICOSECOND OPTICAL SIGNAL SAMPLING DEVICE (DAR-8008752)*; 12 MONTHS $38,500

MOLECULON RESEARCH CORPORATION

OBERMAYER, ARTHUR S; *POROPLASTIC PERSONNEL VAPOR MONITORING BADGES (DAR-7819225 A01)*; 12 MONTHS $110,925

NATIONAL BUREAU OF ECONOMIC RESEARCH INC

HAMERMESH, DANIEL S; *CONSUMPTION, RETIREMENT AND CHANGING LIFE EXPECTANCIES (DAR-8008458)*; 18 MONTHS $48,281

GROSSMAN, MICHAEL, AND COATE, DOUGLAS; *ECONOMIC AND OTHER FACTORS IN YOUTH SMOKING (DAR-8014959)*; 24 MONTHS $150,780

HENDERSHOTT, PATRIC H; *INFLATION, TAXATION AND CAPITAL FORMATION (DAR-8016064)*; 24 MONTHS $91,085

SHOVEN, JOHN B; *PRIVATE AND PUBLIC PENSIONS (DAR-8019616)*; 12 MONTHS $124,763

SIMMONS COLLEGE

BERLINER, MARTHA D; *REGENERATION, FUSION AND SOMATIC HYBRIDIZATION OF PROTOPLASTS OF SINGLE-CELLED ALGAE, PARTICULARLY DESMIDS (DAR-7910225 A01)*; $8,514

UNIVERSITY OF MASSACHUSETTS, AMHERST

MILLER, BERNARD, AND CHIEN, JAMES C W; *TEST OF A PROCESS FOR PREPARING NONCARCINOGENIC FOOD DYES (DAR-8000258)*; 24 MONTHS $103,610

WORCESTER POLYTECHNIC INSTITUTE

CHAMBERLAYNE, DONALD W; *A COMPOSITE MODEL FOR MOBILITY AND MIGRATION ANALYSIS AND CONDITIONAL POPULATION PROJECTIONS (DAR-8011878)*; 15 MONTHS $29,351

MICHIGAN

MICHIGAN STATE UNIVERSITY

FISHER, RONALD C; *EFFECT OF TAX SUBSIDIES ON SUBNATIONAL FISCAL BEHAVIOR (DAR-8010999)*; 14 MONTHS $29,042

CROFT, BRIAN A; *A COMPARISON OF HERBIVORE, PREDATOR AND PARASITE ADAPTATIONS TO TOXINS (DAR-8011600)*; 24 MONTHS $100,000

MICHIGAN TECHNOLOGICAL UNIVERSITY

HENDRICKSON, ALFRED A; *NOISE REDUCTION AND INCREASED PRODUCTIVITY IN FORGING (DAR-7720530 A01)*; 18 MONTHS $158,738

PANDIT, SUDHAKAR M; *STOCHASTIC MODELING OF THE EDM PROCESS WITH A VIEW TO OFFLINE OPTIMIZATION (DAR-7917999)*; 24 MONTHS $113,986

UNIVERSITY OF MICHIGAN

PEHLKE, ROBERT D; *A COMPUTER AIDED DESIGN SYSTEM FOR CASTINGS (DAR-7826171 A01)*; 12 MONTHS $115,000

ANTON, THOMAS J; *TRACKING THE INTERGOVERNMENTAL FISCAL SYSTEM (DAR-7924155)*; 12 MONTHS $96,102

KESLER, STEPHEN E; *EVALUATION OF SECONDARY GAS HALOES AS A METHOD OF DEEP EXPLORATION (DAR-8008116)*; 18 MONTHS $59,789

WAYNE STATE UNIVERSITY

SALTZ, ELI; *IMPROVING ACQUISITION AND MEMORY IN YOUNG CHILDREN AND OLDER ADULTS (DAR-7924909)*; 36 MONTHS $125,132

MINNESOTA

UNIVERSITY OF MINNESOTA

MILLER, LARRY L; *PREPARATIVE ORGANIC PLASMA CHEMISTRY (DAR-7827046 A01)*; 12 MONTHS $55,124

HEATH, LINDA; *A MULTI-METHODOLOGICAL INVESTIGATION OF THE IMPACT OF MEDIA ON PERCEPTIONS OF CRIME (DAR-8011225)*; 14 MONTHS $35,000

UNIVERSITY OF MINNESOTA AT DULUTH

ADAMS, JOHN E; *ATTITUDES DETERMINING FOOD CHOICES (DAR-8008445)*; 14 MONTHS $68,595

MISSOURI

UNIVERSITY OF MISSOURI, ROLLA

O KEEFE, THOMAS J; *THE ROLE OF TRACE ELEMENTS AND ADDITIVES IN NON-FERROUS ELECTROLYTIC PROCESSING (DAR-8004272*)*; 12 MONTHS $11,992

WASHINGTON UNIVERSITY-SCHOOL OF MEDICINE

SCHLESINGER, MILTON J; *SYMPOSIUM ON ANIMAL AND PLANT CELL CULTURE AND THEIR APPLICATIONS; AUGUST 24-29, 1980; SAN FRANCISCO, CALIFORNIA (DAR-8008460)*; 6 MONTHS $4,000

WASHINGTON UNIVERSITY

HASKIN, LARRY A; *SEPARATION OF METALS BY ELECTROCHEMICAL REDUCTION IN MOLTEN SILICATE ROCKS AND SLAGS (DAR-7924705)*; 36 MONTHS $159,215

NEW HAMPSHIRE

BROWNING ENGINEERING CORPORATION

BROWNING, JAMES A; *EXTREME IMPACT VELOCITY METAL AND CERAMIC DEPOSITION (PHASE II OF 79-16720) (DAR-8017544)*; 18 MONTHS $100,000

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

SASNER JR, JOHN J, AND IKAWA, MIYOSHI; *TOXINS FROM CYANOBACTERIA (DAR-8003523)*; 38 MONTHS $161,618

NEW JERSEY

OSBORNE-HOFFMAN INC

HOFFMAN, EDWIN; *ADVANCED UNDERWATER TELEMETRY AND VOICE LINKS FOR INLAND AND COASTAL WATERS RESEARCH (DAR-8009716)*; 6 MONTHS $25,000

RUTGERS UNIVERSITY-BUSCH CAMPUS

BIRD, GEORGE R; *NEW FAMILIES OF CHROMOPHORES FOR BROADBAND LASING ACTION, FOR IMPROVED LONG WAVELENGTH PERFORMANCE, AND FOR GAS PHASE LASERS (DAR-7917651)*; 36 MONTHS $179,680

NEW YORK

BARNARD COLLEGE

LARSON, JAMES R; *CAUSES AND CONSEQUENCES OF SUPERVISORY PERFORMANCE FEEDBACK (DAR-8011628)*; 20 MONTHS $35,000

BARUCH COLLEGE

SOLDOW, GARY F; *AN EXPERIMENTAL STUDY TESTING THE EFFECTS OF COGNITIVE DEVELOPMENTAL STAGE ON CHILDREN'S PERCEPTIONS OF PRODUCT PACKAGING (DAR-8011751)*; 12 MONTHS $34,758

BIORESEARCH INC

CONTI, JAMES C; *OPTIMIZATION OF A SENSOR FOR ORE BENEFICIATION PROCESSES (DAR-7724213 A02)*; 18 MONTHS $92,971

BROOKLYN COLLEGE

BUCKHOUT, ROBERT; *HYPNOSIS, HYPERMNESIA AND THE EYEWITNESS (DAR-7926805)*; 24 MONTHS $106,366

CLARKSON COLLEGE OF TECHNOLOGY

MCBRIDE, MARK E; *THE EXTENT OF ECONOMIES OF VERTICAL INTEGRATION IN THE OIL INDUSTRY (DAR-8012177)*; 24 MONTHS $33,422

COLUMBIA UNIVERSITY

SOMASUNDARAN, PONISSERI; *BENEFICIATION OF MINERALS USING SELECTIVE FLOCCULATION (DAR-7909295 A01)*; 12 MONTHS $70,000

SAVAS, E S; *THE ORGANIZATION OF SERVICE DELIVERY: RECYCLING, RESOURCE RECOVERY, AND SOLID WASTE DISPOSAL (DAR-7924419)*; 24 MONTHS $168,219

DOHRENWEND, BARBARA S; *TRAITS, STATES, AND LIFE EVENTS (DAR-8008463)*; 24 MONTHS $97,402

CORNELL UNIVERSITY

WU, RAY; *SYNTHESIS OF NOVEL GENES CODING FOR LYSINE- AND TRYPTOPHAN-RICH PROTEINS (DAR-7917310)*; 24 MONTHS $100,000

MORSE, ROGER A; *BIOLOGY AND CONTROL OF VARROA JACOBSONI AN IMPORTANT PARASITIC MITE OF HONEY BEES (DAR-7920922*)*; 22 MONTHS $44,205

MORSE, ROGER A; *BIOLOGY AND CONTROL OF VARROA JACOBSONI (DAR-7920922 A01)*; $7,680

GHIORSE, WILLIAM C; *MICROBIAL POLYMERS AND THE ACCUMULATION OF METALS IN AQUATIC ENVIRONMENTS (DAR-7924494)*; 36 MONTHS $133,439

MAXWELL, WILLIAM L; *AUTOMATED FACTORY CONTROL (DAR-7924777)*; 12 MONTHS $53,036

EHRENBERG, RONALD G; *UNIONS AND PRODUCTIVITY IN THE PUBLIC SECTOR (DAR-8014279)*; 18 MONTHS $50,455

CORNELL UNIVERSITY-CORNELL UNIVERSITY MEDICAL CENTER

RUBINOW, SOL I; *A MATHEMATICAL INVESTIGATION OF REACTION-DIFFUSION SYSTEMS ARISING IN BIOLOGY AND CHEMISTRY (MCS-7918597*)*; 36 MONTHS $41,670

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

WANG, K K; *COMPUTER-AIDED INJECTION MOLDING SYSTEM (DAR-7818868 A01)*; 12 MONTHS $170,944

CORNELL UNIVERSITY-CORNELL UNIVERSITY - STATE

PIMENTEL, DAVID; *APPLICATIONS OF ECOLOGICAL POPULATION DYNAMICS TO THE PESTICIDE RESISTANCE PROBLEM TO REDUCE ENVIRONMENTAL RISKS (DAR-7922497)*; 36 MONTHS $124,980

KIRMEYER, SANDRA L; *EMPLOYEE REACTIONS TO JOB DEMANDS IN SERVICE SETTINGS (DAR-8008456)*; 12 MONTHS $42,775

INTERMAGNETICS GENERAL CORPORATION

SCHWALL, ROBERT E; *HYDROSTATIC EXTRUSION OF IN-SITU PROCESS SUPERCONDUCTIVE WIRE FOR USE IN NMR MAGNETS (DAR-8009738)*; 5 MONTHS $23,900

HOUSE, WAYLON V; *FEASIBILITY STUDY - NMR IMAGING MICROSCOPE (DAR-8009739)*; 6 MONTHS $23,900

KLD ASSOCIATES INC

MAHLER, DAVID S; *ACOUSTIC CONCEPT FOR MEASURING PARTICLE SIZE DISTRIBUTIONS (DAR-8009595)*; 6 MONTHS $25,000

LANSING RESEARCH CORP

SMITHLINE, LEONARD M; *RESEARCH ON ACOUSTOOPTIC FILTER SIDE LOBE SUPPRESSION (DAR-8009850)*; 6 MONTHS $24,029

NATIONAL BUREAU OF ECONOMIC RESEARCH INC-NATIONAL BUREAU OF ECONOMIC RES INC-NEW YORK

SCHWARTZ, ANNA J; *THE INTERNATIONAL TRANSMISSION OF INFLATION THROUGH THE WORLD MONETARY SYSTEM (DAR-7922874)*; 18 MONTHS $120,873

NEW YORK UNIVERSITY

DEUTSCH, MARTIN; *LONG-TERM EFFECTS OF EARLY INTERVENTION ON CHILDREN (DAR-7917696*)*; 21 MONTHS $217,686

CAREY, JOHN T; *TELETEXT FOR PUBLIC TELECOMMUNICATIONS SERVICES (DAR-7924889)*; 24 MONTHS $200,000

STUMPF, STEPHEN A; *EXPLORATION AND EVALUATION-CHOICE IN JUDGMENTAL DECISION MAKING (DAR-8011697)*; 12 MONTHS $34,995

BRAMS, STEVEN J; *APPROVAL VOTING: APPLIED RESEARCH AND UTILIZATION (DAR-8011823)*; 26 MONTHS $87,611

SHINN, MARYBETH; *STAFF BURNOUT AND TURNOVER IN CHILD CARE AGENCIES: JOB STRESS, PSYCHOLOGICAL STRAIN, AND COPING RESPONSES (DAR-8011824)*; 12 MONTHS $34,941

OCEAN POND CORPORATION

MATTHIESSEN, GEORGE C; *ENRICHMENT OF A BRACKISH WATER POND FOR SHELLFISH CULTURE (DAR-8009292)*; 6 MONTHS $18,000

PACE UNIVERSITY-PLEASANTVILLE-BRIARCLIFF CAMPUS

YOUNG, PHILIP K; *A SOCIOECONOMIC ANALYSIS OF ETHNIC ENTERPRISE (DAR-8011627)*; 12 MONTHS $29,247

RESEARCH INSTITUTE FOR THE STUDY OF MAN

MACGILLIVRAY, LOIS; *EVALUATING THE ORGANIZATION OF SERVICE DELIVERY: FIRE (DAR-7719351 A02)*; 12 MONTHS $96,091

ROCKEFELLER UNIVERSITY

GLIMM, JAMES; *MATHEMATICS APPLIED TO THEORETICAL PHYSICS, ENGINEERING AND BIOLOGY (PHY-8001979*)*; 24 MONTHS $50,000

STATE UNIVERSITY AT BUFFALO

ROSS, H L, AND THOMAS, JOHN M; *ALTERNATIVE MODELS OF REGULATORY ENFORCEMENT IN HOUSING (SES-8010989*)*; 12 MONTHS $67,581

VOGEL, KENNETH R; *CONTROL OF EXTERNALITY--THE CASE OF TRESPASS LAWS (DAR-8011904)*; 18 MONTHS $34,134

STATE UNIVERSITY AT STONY BROOK

LAUTERBUR, PAUL C; *NUCLEAR MAGNETIC RESONANCE MICROSCOPY (DAR-8008629)*; 18 MONTHS $53,921

SCHOLZ, JOHN T; *CORPORATE REGULATORY COMPLIANCE (DAR-8011839)*; 12 MONTHS $34,949

SYRACUSE UNIVERSITY

SLEPECKY, RALPH A; *STUDIES ON THE MECHANISM OF HEAT RESISTANCE OF BACTERIAL SPORES (DAR-7924785)*; 36 MONTHS $96,756

SCHUSTER, MICHAEL H; *AN ASSESSMENT OF UNION-MANAGEMENT COOPERATION AND ITS IMPACT ON PRODUCTIVITY, EMPLOYMENT, AND OTHER INDICES OF ORGANIZATIONAL EFFECTIVENESS (DAR-8011866)*; 18 MONTHS $34,973

UNIVERSITY OF ROCHESTER

BENSTON, GEORGE J; *THE RELATION BETWEEN MORTGAGE DEMAND AND NEIGHBORHOOD CHARACTERISTICS (DAR-8000482)*; 18 MONTHS $120,000

NORTH CAROLINA

AMERICAN FISHERIES SOCIETY (AFS)-SOUTHERN DIVISION OF AFS

HUISH, MELVIN T; *WARMWATER STREAMS SYMPOSIUM (DAR-8008092)*; 12 MONTHS $5,000

DUKE UNIVERSITY

MAGAT, WESLEY A; *CONFERENCE ON MANAGING THE TRANSITION TO DEREGULATION (DAR-7924890)*; 6 MONTHS $12,000

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

LEVI, MICHAEL P; *SUPPORT FOR 11TH MEETING OF THE INTERNATIONAL RESEARCH GROUP ON WOOD PRESERVATION AT RALEIGH, N.C. (DAR-7924213)*; 6 MONTHS $3,000

GUPTA, AJAYA K; *DESIGN OF REINFORCED CONCRETE SHELLS (DAR-8018554)*; 24 MONTHS $78,850

RESEARCH TRIANGLE INSTITUTE

MACGILLIVRAY, LOIS; *EVALUATING THE ORGANIZATION OF SERVICE DELIVERY: FIRE (DAR-7719351 A03)*; 12 MONTHS $163,844

OHIO

ANTHROPOLOGY RESEARCH PROJECT INC

MCCONVILLE, JOHN T; *AN ANTHROPOMETRIC DATA BASE FOR COMMERCIAL DESIGN APPLICATIONS (DAR-8009961)*; 6 MONTHS $23,895

CASE WESTERN RESERVE UNIVERSITY

LANDAU, UZIEL; *MICRO ELECTROCHEMICAL PATTERNING OF SURFACES WITH APPLICATIONS TO FABRICATION OF HOLOGRAPHIC OPTICAL ELEMENTS (DAR-7721405 A01)*; 24 MONTHS $169,500

CHILDRENS HOSPITAL RESEARCH FDN-CINCINNATI

BUTCHER, RICHARD E; *AN EXPERIMENTAL INVESTIGATION OF THE BEHAVIORAL TERATOGENIC EFFECTS OF EXPOSURE TO ANTICONVULSANT DRUGS (DAR-7924710)*; 24 MONTHS $124,744

OHIO STATE UNIVERSITY

HAMLIN, ROBERT L; *ACUTE EFFECTS OF INHALATION OF VOLCANO DUST IN THE CANINE MODEL (DAR-8023259)*; 12 MONTHS $10,000

RIBBON TECHNOLOGY CORPORATION

HACKMAN, LLOYD E; *THIN STEEL SHEET MADE FROM MELT EXTRACTED FLAKE (DAR-8009583)*; 6 MONTHS $24,422

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

MUNNECKE, DOUGLAS M; *DEVELOPMENT OF MICROBIAL ENZYMES FOR THE DETOXIFICATION OF PESTICIDES (DAR-7921299)*; 24 MONTHS $89,000

OREGON

BEND RESEARCH INC

BABCOCK, WALTER C; *WASTE POND TREATMENT WITH IMMOBILIZED LIQUID ION EXCHANGERS (DAR-8009577)*; 6 MONTHS $25,000

OREGON STATE UNIVERSITY

SEIDLER, RAMON J; *A NEW APPROACH TO THE DETECTION AND ENUMERATION OF COLIFORMS IN DRINKING WATER AND RAW WATER SUPPLIES (DAR-8007783)*; 24 MONTHS $115,721

BELL, J R; *EFFECTS OF WEATHERING ON GEOTECHNICAL PROPERTIES OF MT. ST. HELENS ASH - BASELINE STUDY (DAR-8022415)*; 12 MONTHS $10,519

PENNSYLVANIA

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA

VANNOTE, ROBIN L; *GEOGRAPHIC ANALYSIS OF THERMAL EQUILIBRIA (DAR-7818589 A01)*; 12 MONTHS $153,826

BEAVER COLLEGE

MAUSNER, BERNARD; *SOCIALIZATION OF ACHIEVING BEHAVIOR IN MEN AND WOMEN (DAR-7921155)*; 36 MONTHS $149,724

CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

EPPLE, DENNIS N; *HELIUM CONSERVATION AND PUBLIC POLICY (DAR-7924787)*; 18 MONTHS $68,442

CARNEGIE-MELLON UNIVERSITY

ROMER, THOMAS, AND ROSENTHAL, HOWARD L; *AGENDA CONTROL, INSTITUTIONS AND PUBLIC POLICY (DAR-7917576 A01)*; 11 MONTHS $105,921

MELTZER, ALLAN H; *CARNEGIE-ROCHESTER CONFERENCE ON PUBLIC POLICY (DAR-8008112*)*; 24 MONTHS $106,015

HODRICK, ROBERT J; *THE FORWARD FOREIGN EXCHANGE MARKET: SOME ECONOMETRIC TESTS OF MARKET EFFICIENCY (DAR-8010760)*; 6 MONTHS $26,358

CERAMIC FINISHING COMPANY

KIRCHNER, HENRY P; *TOUGHENED CERAMIC ADHESIVES FOR STRUCTURAL CERAMICS (DAR-8009270)*; 6 MONTHS $24,917

DYNA EAST CORPORATION

CARLEONE, JOSEPH; *NUMERICAL-CONTROLLED ORBITAL FORGING PROCESSES (DAR-8009693)*; 6 MONTHS $25,000

LEHIGH UNIVERSITY

MORGAN, EDWARD P; *LOCAL DISTRICT IMPLEMENTATION OF STATE SCHOOL FINANCE REFORM: POLITICAL AND ECONOMIC FACTORS AFFECTING EDUCATIONAL EQUITY AND GOVERNANCE (DAR-8011906)*; 24 MONTHS $34,993

PENNSYLVANIA STATE UNIVERSITY

MAYNARD, JULIAN D; *FIFTH SOUND SUPERFLUID GYROSCOPE (DAR-7920925)*; 36 MONTHS $134,000

SHUNG, K K; *RESEARCH ON INSTRUMENTATION FOR NON-INVASIVE HEMATOLOGY (DAR-8018415)*; 24 MONTHS $92,597

UNIVERSITY OF PENNSYLVANIA

WILLIAMSON, OLIVER E; *ANTITRUST ECONOMICS: THE TRANSACTION COST APPROACH (DAR-7924111)*; 36 MONTHS $109,600

SICKLES, ROBIN C; *ESTIMATION OF SPECIFIC FACTOR PRODUCTIVITY AND EFFICIENCY FOR THE U. S. AIRLINES, 1968-1979 (DAR-8012982)*; 24 MONTHS $35,000

COLE, BARRY G; *NINTH ANNUAL TELECOMMUNICATIONS POLICY RESEARCH CONFERENCE (DAR-8023377)*; 9 MONTHS $17,000

TENNESSEE

MERRICK CORPORATION

COOK, GEORGE E; *RESEARCH ON ADAPTIVE ARC TRACKING FOR WELDING (DAR-8009596)*; 6 MONTHS $25,000

TEXAS

R F MONOLITHICS INC

HARTMANN, CLINTON S; *THEORETICAL MODELING OF AN INNOVATIVE UNIDIRECTIONAL SURFACE ACOUSTIC WAVE TRANSDUCER (DAR-8009600)*; 6 MONTHS $24,030

RICE UNIVERSITY

ZODROW, GEORGE; *OPTIMAL TAX REFORM: DYNAMIC ASPECTS OF IMPLEMENTATION (DAR-8011842)*; 14 MONTHS $32,294

TEXAS A & M UNIVERSITY

LAWHON, J T; *MEMBRANE ISOLATION PROCEDURES FOR THE RECOVERY OF PROTEIN FROM OILSEED FLOURS (DAR-7720806 A02)*; 12 MONTHS $13,000

PARNELL, CALVIN B; *SYSTEMS ANALYSIS OF COTTON GIN TRASH UTILIZATION ALTERNATIVES (DAR-7721292 A02)*; 12 MONTHS $65,847

WORMUTH, JOHN; *A STUDY OF FEEDING RELATIONSHIPS IN TUNA AND PORPOISE THROUGH THE APPLICATION OF CEPHALOPOD BEAK ANALYSIS (DAR-7924779*)*; 24 MONTHS $15,802

TEXAS TECH UNIVERSITY

MENZEL, E R; *DEVELOPMENT OF FINGERPRINTS BY LASER (DAR-8005515)*; 36 MONTHS $84,940

UNIV OF TEXAS AT AUSTIN

RYLANDER, HENRY G; *STUDY OF HOMOPOLAR PULSE RESISTANCE WELDING PARAMETERS FOR RAILROAD RAILS AND AUTOMOTIVE PARTS (ISP-8005918*)*; 18 MONTHS $50,000

UNIV OF TEXAS AT DALLAS

BHAGAT, RABI S; *EFFECTS OF PERSONAL LIFE STRESS UPON INDIVIDUAL PERFORMANCE EFFECTIVENESS AND WORK ADJUSTMENT PROCESSES WITHIN ORGANIZATIONAL SETTINGS (DAR-8011459)*; 12 MONTHS $34,977

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

SCHUNK, DALE H; *DEVELOPMENT OF CHILDREN'S ARITHMETIC SELF-EFFICACY: THE ROLES OF OVERT VERBALIZATION AND GOAL SETTING (DAR-8011753)*; 12 MONTHS $22,703

ZYCOR INC

DOWNING, JAMES A; *INTERPOLATION OF N-DIMENSIONAL GEOPHYSICAL DATA (DAR-8009879)*; 6 MONTHS $22,566

UTAH

CERAMATEC INC

GORDON, RONALD S; *ELECTROREFINING OF SODIUM USING SOLID STATE RAPID ION CONDUCTORS (DAR-8009646)*; 6 MONTHS $24,494

NATIVE PLANTS INC

BOLLINGER, WM HUGH; *A MYCORRHIZAL INOCULATED CONTAINERIZED PLANT GROWING SYSTEM (DAR-8009402)*; 6 MONTHS $24,999

VIRGINIA

ARTECH CORPORATION

LARE, PAUL J; *IMPROVEMENT OF THE TRANSVERSE STRENGTH OF GRAPHITE/ALUMINUM COMPOSITES BY HYBRIDIZATION WITH SIC WHISKERS (DAR-8009721)*; 6 MONTHS $24,305

KAPPA SYSTEMS INC

DARNELL, WILLIAM G; *CONTINUATION AND IMPROVEMENT OF THE EXTERNAL PRODUCT EVALUATION SYSTEM (PRA-8007241*)*; 12 MONTHS $41,826

OLD DOMINION UNIVERSITY

KIRASIC, KATHLEEN C; *SPATIAL COGNITION AND SPATIAL BEHAVIOR IN THE ELDERLY: IMPLICATIONS FOR LEARNING NEW SPATIAL ENVIRONMENTS (DAR-8011000)*; 24 MONTHS $31,360

UNIVERSITY OF VIRGINIA

STONER, GLENN E; *THE USE OF GRAPHITE FIBER-POLYMER COMPOSITES IN ELECTROCHEMICAL TECHNOLOGY (DAR-7826118 A01)*; 12 MONTHS $87,174

WASHINGTON

UNIVERSITY OF WASHINGTON

WISSMAR, ROBERT C, SIMENSTAD, CHARLES A, AND EGGERS, DOUGLAS M; *OPTIMAL MANAGEMENT OF CHUM SALMON BASED ON ESTUARINE AND NEARSHORE CARRYING CAPACITY FOR OUTMIGRATING JUVENILES IN HOOD CANAL (DAR-8008637*)*; 12 MONTHS $14,480

WEATHERLEY, RICHARD A; *INTERAGENCY COORDINATION FOR CLIENT PROCESSING: A STUDY OF THE IMPLEMENTATION AND IMPACT OF THE WASHINGTON STATE INVOLUNTARY TREATMENT ACT (DAR-8011896)*; 14 MONTHS $34,996

LOFTUS, ELIZABETH F; *IMPROVING JURY INSTRUCTIONS (DAR-8012333)*; 24 MONTHS $156,357

WELCH, EUGENE B; *ASHFALL EFFECTS ON NUTRIENT CYCLING IN MOSES LAKE, WASHINGTON (DAR-8020943)*; 12 MONTHS $7,419

HOU, MICHAEL C Y; *EVALUATION OF MUDFLOW DAMAGES TO TOUTLE RIVER BY PHOTOGRAMMETRY (DAR-8021000)*; 6 MONTHS $10,114

WASHINGTON STATE UNIVERSITY

KENNEDY, ROBERT A; *EMERGENCY REQUEST FOR FUNDS TO STUDY THE EFFECTS OF MOUNT ST. HELENS' ASH ON PLANT AND CROP GROWTH (DAR-8020160*)*; 12 MONTHS $7,510

SHELDON, GARY L; *WEAR-OUT FAILURE OF MECHANICAL EQUIPMENT OPERATION IN MT. ST. HELENS' ASH (DAR-8020660)*; 12 MONTHS $7,500

KOES, RICHARD M; *NUTRITIONAL DIAGNOSIS OF MT. ST. HELENS ASH LADEN FORAGE (DAR-8020662)*; 6 MONTHS $9,957

CONWAY, JOHN B; *THE EFFECT OF VOLCANIC ASH FROM MT. ST. HELENS ON THE AQUATIC ECOSYSTEM (BENTHIC INVERTEBRATES) OF THE PALOUSE RIVER (DAR-8020960)*; 12 MONTHS $7,500

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

GABELMAN, W H, AND GERLOFF, GERALD C; *THE ISOLATION, SYNTHESIS, AND EVALUATION OF PLANT GENOTYPES EFFICIENT IN POTASSIUM AND PHOSPHORUS UTILIZATION (DAR-7912261 A01)*; 12 MONTHS $75,000

FEIGE, EDGAR L; *EMPIRICAL ANALYSIS OF RESOURCE SCARCITY AND THE EFFICIENT INTERTEMPORAL ALLOCATION OF EXHAUSTIBLE RESOURCES (DAR-7920920)*; 15 MONTHS $86,842

CHRISTENSEN, LAURITS R; *AN ASSESSMENT OF THE CHANGE IN ECONOMIC EFFICIENCY RESULTING FROM DEREGULATION OF THE U.S. AIR TRANSPORT INDUSTRY (DAR-7924663)*; 36 MONTHS $190,000

WITTE, JOHN F; *THE CLASSIFICATION AND POLITICS OF TAX EXPENDITURES (DAR-8011902)*; 24 MONTHS $34,967

GORMLEY, WILLIAM T; *THE EFFECTS OF PUBLIC INTERVENTION IN PUBLIC UTILITY REGULATORY PROCEEDINGS (DAR-8023993)*; 16 MONTHS $38,298

INTERGOVERNMENTAL SCIENCE

ALABAMA

AUBURN UNIVERSITY

CARROLL, CHESTER C; *PUBLIC RESEARCH AND DEVELOPMENT FOR GOVERNMENTS IN ALABAMA (ISP-7902634 A01)*; 6 MONTHS $10,000

ARIZONA

ARIZONA OFF OF ECONOMIC PLANNING & DEVELOPMENT

LANDRY, LAWRENCE; *ARIZONA STATE SCIENCE, ENGINEERING, AND TECHNOLOGY PROCESS (CDP-8019800)*; 12 MONTHS $78,308

ARKANSAS

ARKANSAS OFFICE OF THE GOVERNOR

SMITH, STEVE; *IMPLEMENTATION PHASE - ARKANSAS SSET PROJECT (CDP-8019792)*; 12 MONTHS $50,000

CALIFORNIA

ASSOCIATION OF BAY AREA GOVERNMENTS

GOLDMAN, ROBERT; *IPA MOBILITY ASSIGNMENT (ROBERT GOLDMAN) (EAS-8026082*)*; 15 MONTHS $24,000

CALIFORNIA ST OFFICE OF PLANNING & RESEARCH

DETWILER, PETER M; *SCIENTIFIC AND TECHNOLOGICAL RESOURCES FOR CALIFORNIA STATE GOVERNMENT IN THE 1980'S (CDP-8019798)*; 12 MONTHS $60,018

CALIFORNIA STATE ASSEMBLY-OFFICE OF RESEARCH

FELTE, KEITH; *THE CALIFORNIA LEGISLATIVE INFORMATION MANAGEMENT SYSTEM (ISP-8005190)*; 6 MONTHS $48,150

NAVAL WEAPONS CENTER

LINSTEADT, GEORGE F; *IMPLEMENTATION/EVALUATION OF AN EXPANDED FEDERAL LABORATORY CONSORTIUM FOR TECHNOLOGY TRANSFER (FLC) (ISP-7926511*)*; 12 MONTHS $250,409

SOUTHWEST INNOVATION GROUP INC

MURDOCH, KEITH A; *IMPLEMENTATION OF A REGIONAL SCIENCE AND TECHNOLOGY NETWORK (ISP-7917656 A01)*; 12 MONTHS $200,000

COLORADO

COLORADO OFFICE OF THE GOVERNOR

MONAGHAN, JAMES; *POLICY FORMATION STUDIES IN THE COLORADO GOVERNOR'S OFFICE EMPLOYING SCIENCE AND TECHNOLOGY (ISP-7918767 A02)*; 12 MONTHS $56,662

MONAGHAN, JAMES; *POLICY FORMATION STUDIES IN THE COLORADO GOVERNOR'S OFFICE EMPLOYING SCIENCE AND TECHNOLOGY (ISP-7918767 A03)*; 6 MONTHS $27,000

COLORADO STATE GENERAL ASSEMBLY

ANDERSON, FRED E, AND BURFORD, ROBERT F; *COLORADO STATE SCIENCE, ENGINEERINC, AND TECHNOLOGY PROGRAM - LEGISLATIVE BRANCH (CDP-8019787)*; 24 MONTHS $57,014

DENVER URBAN OBSERVATORY

HEISS, F WILLIAM; *ROCKY MOUNTAIN INNOVATION GROUP (ISP-8009001)*; 8 MONTHS $60,000

NATIONAL CONFERENCE OF STATE LEGISLATURES

MACKEY, EARL S; *SCIENCE AND TECHNOLOGY IN STATE LEGISLATURES (ISP-7717799 A02)*; 12 MONTHS $262,579

MACKEY, EARL S, AND PRESNAL, BILL; *MODEL INTERSTATE SCIENTIFIC AND TECHNICAL INFORMATION CLEARINGHOUSE (MISTIC) (ISP-7821314 A03)*; 12 MONTHS $30,000

MACKEY, EARL S, AND NEWKIRK, M GLENN; *LEGISLATIVE INFORMATION SYSTEM (L I S) PROJECT (ISP-8006617)*; 6 MONTHS $39,181

CONNECTICUT

CONNECTICUT GENERAL ASSEMBLY

FRANTZ, CARL D; *CONNECTICUT GENERAL ASSEMBLY'S SCIENTIFIC STAFFING PROGRAM (ISP-7828107 A01)*; 12 MONTHS $25,000

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

RATCHFORD, J THOMAS; *WORKSHOP ON TASK FORCE STUDIES FROM THE INTERGOVERNMENTAL SCIENCE, ENGINEERING AND TECHNOLOGY ADVISORY PANEL (ISETAP) (PFR-7824464 A03*)*; 8 MONTHS $45,000

CONEG POLICY RESEARCH CENTER INC

LONDON, PAUL A; *DEVELOPMENT OF REGIONAL MECHANISMS FOR COORDINATION OF SCIENTIFIC AND TECHNICAL RESOURCES (ISP-8018909)*; 12 MONTHS $98,000

COUNCIL OF STATE GOVERNMENTS-NATIONAL ASSOCIATION OF ATTORNEYS GENERAL

MARVIN, C R; *IMPROVING THE UTILIZATION OF SCIENTIFIC AND TECHNICAL RESOURCES BY THE STATES' ATTORNEYS GENERAL (ISP-8018165)*; 12 MONTHS $50,000

COUNCIL OF STATE GOVERNMENTS-NATIONAL GOVERNORS CONFERENCE

WAKELEY, BERTRAM; *IPA MOBILITY ASSIGNMENT (BERTRAM WAKELEY) (ISP-8017394*)*; 13 MONTHS $72,164

WAKELEY, BERTRAM; *IPA MOBILITY ASSIGNMENT (BERTRAM F. WAKELEY) (ISP-8017394 A01*)*; $3,000

HAROLD F WISE, OFFICE OF

WISE, HAROLD F; *THE DEVELOPMENT OF JOINT FEDERAL RESEARCH AND DEVELOPMENT PROCESSES RESPONDING TO STATE AND LOCAL NEEDS (ISP-7917531 A02)*; $14,682

INTERNATIONAL CITY MANAGEMENT ASSOCIATION

KNIGHT, FRED S; *APPLYING SCIENCE AND TECHNOLOGY TO MUNICIPAL MANAGEMENT (ISP-8017912)*; 12 MONTHS $50,000

METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS

SCHEIBER, WALTER A; *PLAN FOR THE ESTABLISHMENT OF A MID-ATLANTIC INNOVATION GROUP (ISP-8017278)*; 6 MONTHS $41,797

NATIONAL GOVERNORS' ASSOCIATION-COUNCIL OF STATE PLANNING AGENCIES

WISE, ROBERT N; *STATE PLANNING AND POLICY DEVELOPMENT TOOLS AND TECHNIQUES (ISP-7927058)*; 12 MONTHS $118,550

NATIONAL GOVERNORS' ASSOCIATION

BRIZIUS, JACK A; *SCIENCE AND TECHNOLOGY IN THE STATE EXECUTIVE BRANCH (ISP-7720657 A04)*; 12 MONTHS $171,560

NATIONAL LEAGUE-CITIES/US CONFERENCE OF MAYORS-AMERICAN INST FOR MUNICIPAL RES ED & TRAINING

ARESON, TODD W; *BROADENING THE APPLICATION OF RESEARCH AND TECHNOLOGY AMONG ELECTED MUNICIPAL OFFICIALS (ISP-8017279)*; 8 MONTHS $49,830

PUBLIC TECHNOLOGY INC

PARKER, JOHN K; *URBAN TECHNOLOGY SYSTEM (ISP-7726003 A02)*; 12 MONTHS $246,000

PARKER, JOHN K; *URBAN TECHNOLOGY SYSTEM (ISP-7726003 A03)*; 3 MONTHS $140,000

PARKER, JOHN K; *URBAN CONSORTIUM (ISP-7812729 A04)*; 4 MONTHS $57,246

PARKER, JOHN K; *COMMUNITY TECHNOLOGY INITIATIVES PROGRAM (ISP-7918742 A01)*; 2 MONTHS $76,019

UNITED STATES CONFERENCE OF MAYORS

MISTER, MELVIN A; *SCIENCE AND TECHNOLOGY UTILIZATION SESSIONS AT THE MAYORS LEADERSHIP INSTITUTE (ISP-7716367 A02)*; 6 MONTHS $48,425

FLORIDA

FLORIDA HOUSE OF REPRESENTATIVES

RYAN, BILL; *FLORIDA HOUSE OF REPRESENTATIVES SSET PROGRAM IMPLEMENTATION PHASE (CDP-8019795)*; 24 MONTHS $105,700

FLORIDA INNOVATION GROUP INC

HAVLICK, J ROBERT, AND FARMER, B HAROLD; *IMPLEMENTATION: THE FLORIDA INNOVATION GROUP (ISP-8015663)*; 4 MONTHS $36,000

GEORGIA

GEORGIA DEPARTMENT OF COMMUNITY AFFAIRS

HUCKABY, HENRY M; *INTERGOVERNMENTAL TECHNOLOGY UTILIZATION PROGRAM (ISP-7908955 A01)*; 12 MONTHS $79,000

ILLINOIS

ILLINOIS LEGISLATIVE COUNCIL

AHLEN, JOHN W; *DEVELOPMENT OF A LEGISLATIVE SCIENCE RESEARCH ANNUAL (ISP-7927197)*; 10 MONTHS $10,400

NETSCH, DAWN C, AND HEY, H W; *DEVELOPMENT AND DEMONSTRATION OF THE ILLINOIS LEGISLATIVE COUNCIL'S CHICAGO BRANCH SCIENCE OFFICE (CDP-8020675)*; 12 MONTHS $64,517

INDIANA

INDIANAPOLIS, CITY OF

MC PHERSON, DONALD R, AND WALTZ, EUGENE W; *INDIANAPOLIS TECHNICAL INNOVATION PROGRAM (ISP-8011184)*; 12 MONTHS $30,000

MAINE

MAINE STATE LEGISLATURE

PIERCE, RICHARD H; *MAINE LEGISLATIVE SCIENCE, ENGINEERING, AND TECHNOLOGY PROJECT (CDP-8019794)*; 24 MONTHS $43,219

MASSACHUSETTS

MASSACHUSETTS STATE LEGIS STATE HOUSE

COX, RAYMOND W; *IPA MOBILITY ASSIGNMENT (RAYMOND COX) (ISP-8007485*)*; 12 MONTHS $46,118

MISSOURI

MISSOURI DIVISION OF BUDGET & PLANNING

MOULTON, ANTHONY D; *MISSOURI EXECUTIVE BRANCH SSET IMPLEMENTATION PROJECT (CDP-8019790)*; 10 MONTHS $76,719

NEW HAMPSHIRE

NEW HAMPSHIRE LEGISLATURE

MONIER, ROBERT, AND ROBERTS, GEORGE B; *A PLAN TO IMPLEMENT SCIENCE AND TECHNOLOGY RESOURCE SYSTEMS FOR THE NEW HAMPSHIRE LEGISLATURE (CDP-8019796)*; 24 MONTHS $51,526

NEW JERSEY

NEW JERSEY OFFICE OF THE GOVERNOR

LINKY, DONALD; *INTEGRATION OF SCIENCE AND TECHNOLOGY RESOURCES AVAILABLE TO THE GOVERNOR OF NEW JERSEY (CDP-8019806)*; 12 MONTHS $33,000

RUTGERS UNIVERSITY

ROSENTHAL, ALAN; *OVERSIGHT DEVELOPMENT PROJECT (ODP): EXPLORATION AND ASSESSMENT OF OVERSIGHT FUNCTIONS IN STATE LEGISLATURES (ISP-7918629)*; 30 MONTHS $60,000

NEW YORK

ROCHESTER E[illegible]GINEERING SOCIETY INC

STERLACE, JAMES, AND KENYON, RICHARD A; *A PROGRAM TO EFFECT TECHNOLOGY TRANSFER TO THE ROCHESTER CITY AND MONROE COUNTY GOVERNMENTS (ISP-7923466)*; 12 MONTHS $33,000

NORTH CAROLINA

NORTH CAROLINA OFFICE OF THE GOVERNOR

LINDSEY, QUENTIN W; *THE STATE SCIENCE, ENGINEERING AND TECHNOLOGY PROGRAM IN NORTH CAROLINA: A PROPOSAL FOR THE IMPLEMENTATION PHASE (CDP-8019788)*; 12 MONTHS $75,000

SOUTHERN GROWTH POLICIES BOARD

LINER, E B; *A CASE STUDY IN INTERREGIONAL COOPERATION (ISP-8008152)*; 12 MONTHS $19,850

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

BENSON, JONATHON; *IPA MOBILITY ASSIGNMENT (JONATHON BENSON) (ISP-7925697 A01)*; $2,271

BENSON, JONATHON; *IPA MOBILITY ASSIGNMENT (JONATHON L. BENSON) (ISP-8003609)*; 13 MONTHS $43,713

NORTH DAKOTA

UPPER PLAINS STATES INNOVATION GROUP

HOWLEY, JACK; *UPPER PLAINS STATES INNOVATION GROUP (ISP-8007661)*; 12 MONTHS $95,000

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

SHAMBLIN, J E; *PROPOSAL TO CONTINUE DEVELOPMENT OF A SOUTH CENTRAL INNOVATION GROUP (ISP-7909286 A01)*; 12 MONTHS $50,000

PENNSYLVANIA

CONSAD RESEARCH CORPORATION

DOCTORS, SAMUEL I; *EVALUATION OF THE EXPERIMENTAL PHASE OF THE URBAN TECHNOLOGY SYSTEM: PHASE II (ISP-7827101 A05)*; 18 MONTHS $137,517

PENNSYLVANIA GENERAL ASSEMBLY

SELTZER, H; *A LEGISLATIVE OFFICE FOR RESEARCH LIAISON (ISP-7615619 A04)*; 6 MONTHS $19,880

PENNSYLVANIA GOVERNOR'S OFFICE POLICY & PLNG

PLOSILA, WALTER H; *STATE SCIENCE, ENGINEERING, AND TECHNOLOGY PROGRAM (IMPLEMENTATION PHASE) (CDP-8019613)*; 12 MONTHS $66,655

PUERTO RICO

PUERTO RICO LEGISLATIVE ASSEMBLY

FERRE, LUIS A; *COUNTERBALANCE IMPLEMENTATION - SCIENCE AND TECHNOLOGY CAPACITY BUILDING IN THE LEGISLATURE (CDP-8019578)*; 12 MONTHS $58,487

RHODE ISLAND

RHODE ISLAND LEAGUE OF CITIES AND TOWNS

COX, ROBERT A; *NEW ENGLAND INNOVATION GROUP (ISP-7830077 A02)*; $110,000

UNIVERSITY OF RHODE ISLAND

HOFFMAN, ROBERT J; *IPA MOBILITY ASSIGNMENT (ROBERT J. HOFFMAN) (ISP-8003608)*; 12 MONTHS $46,215

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

ROGERS, LEONARD R; *TENNESSEE INNOVATION GROUP (ISP-7724388 A04)*; 12 MONTHS $100,060

TEXAS

SOUTHWEST TEXAS STATE UNIVERSITY

JAMES, MORRIS D; *PROJECT FIRST (FACULTY INFORMATION AND RESEARCH SERVICE FOR TEXAS) (ISP-7926510)*; 12 MONTHS $44,951

TEXAS A & M UNIVERSITY

MOORE, DON C, AND HELLRIEGEL, DON; *DEMONSTRATING EFFICACY OF THE TEXAS INNOVATION GROUP (ISP-7911986 A01)*; 12 MONTHS $110,000

WASHINGTON

PACIFIC NORTHWEST INNOVATION GROUP

MORK, ERLING O; *PACIFIC NORTHWEST INNOVATION GROUP (ISP-7908343 A01)*; 12 MONTHS $120,000

WASHINGTON STATE LEGISLATURE

BRICKER, J A; *SCIENCE AND TECHNOLOGY PROGRAM FOR THE WASHINGTON LEGISLATURE (CDP-8019579)*; 12 MONTHS $47,976

WISCONSIN

WISCONSIN OFFICE OF THE GOVERNOR

RASMUSSEN, RICHARD E; *WISCONSIN SSET PROJECT (CDP-8019807)*; 12 MONTHS $75,250

SMALL BUSINESS INNOVATION AND INDUSTRIAL TECHN

ALABAMA

CONTROL DYNAMICS COMPANY

SELTZER, SHERMAN M; *CORRELATION BETWEEN EARLY LINEAR MEASUREMENTS AND FUTURE PERFORMANCE AND CARCASS CHARACTERISTICS IN CATTLE (ISP-8009615)*; 6 MONTHS $24,813

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

MOORE, J P; *SECOND ANNUAL NSF INDUSTRIAL PROGRAM GRANTEE CONFERENCE (ISP-8014048)*; 5 MONTHS $50,330

UNIVERSITY OF ARKANSAS, LITTLE ROCK

MOORE, J P; *A UNIVERSITY/INDUSTRY EXPERIMENTAL CENTER PROGRAM FOR SMALL MANUFACTURERS (ISP-8017147)*; 12 MONTHS $252,324

CALIFORNIA

CAL RECOVERY SYSTEMS INC

SAVAGE, GEORGE M; *TESTING AND EVALUATION OF EQUIPMENT USED IN RECYCLING CENTERS (ISP-8009629)*; 6 MONTHS $20,772

FARALLONES INSTITUTE

COBLENTZ, MICHAEL; *ANAEROBIC UPFLOW TREATMENT OF HOUSEHOLD WASTEWATER (ISP-8015550)*; 6 MONTHS $6,850

GLASS & CERAMICS INTERNATIONAL INC

ALI, MIR AKBAR; *DEVELOPMENT OF MINERAL WOOL FROM INDUSTRIAL WASTES (ISP-8009369)*; 6 MONTHS $24,961

REID & TARICS ASSOCIATES

TARICS, ALEXANDER G, AND KELLY, JAMES M; *A STUDY TO DETERMINE THE COST EFFECTIVENESS OF SEISMIC REHABILITATION THROUGH BASE ISOLATION (ISP-8017675*)*; 12 MONTHS $5,000

COLORADO

COLORADO STATE UNIVERSITY

WARD, ROBERT C; *MANAGEMENT OF DECENTRALIZED, ON-SITE SYSTEMS FOR TREATMENT OF DOMESTIC WASTES (ISP-8018279)*; 24 MONTHS $75,172

DISTRICT OF COLUMBIA

CATHOLIC UNIVERSITY OF AMERICA

LITOVITZ, THEODORE A; *PLANNING GRANT TO FORM UNIVERSITY-INDUSTRY CENTER FOR GLASS RESEARCH (ISP-8016572)*; 6 MONTHS $65,863

INTERNATIONAL SCIENCE & TECH INSTITUTE INC

FRICKE, THOMAS B; *RESEARCH ON A PERMANENT CROPPING SYSTEM FOR SMALL-SCALE FARMS (ISP-8010547)*; 6 MONTHS $25,000

FLORIDA

UNIVERSITY OF FLORIDA

ODUM, HOWARD T; *APPROPRIATE ENVIRONMENTAL SYSTEMS FOR WASTE MANAGEMENT (ISP-8014973)*; 12 MONTHS $27,299

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

KAATZ, JOHN R; *IPA MOBILITY ASSIGNMENT (JOHN R. KAATZ) (ISP-7921854 A01)*; $2,500

INDIANA

UNIVERSITY OF NOTRE DAME

IRVINE, ROBERT L; *WORKSHOP ON DECENTRALIZED SYSTEMS FOR MANAGEMENT OF WATER, SOLID AND LIQUID WASTES (ISP-7921771)*; 8 MONTHS $29,718

KANSAS

KANSAS STATE UNIVERSITY-AGRICULTURAL EXPERIMENT STATION

KIRKHAM, M B; *APPROPRIATE TECHNOLOGY OF ALTERNATIVE AGRICULTURAL PRACTICES ON DRYLANDS (ISP-8014715)*; 24 MONTHS $63,766

UNIVERSITY OF KANSAS MAIN CAMPUS

RUMMER, DALE, AND BARR, B G; *PLANNING A DESIGN CENTER FOR MICROPROCESSOR-BASED SYSTEMS AT THE UNIVERSITY OF KANSAS (ISP-7920241)*; 12 MONTHS $91,597

MARYLAND

UNIVERSITY OF MARYLAND, COLLEGE PARK

ALLEMAN, JAMES E; *BENEFICIAL USE OF SLUDGES IN PRODUCTION OF BUILDING COMPONENTS (ISP-8011257)*; 12 MONTHS $41,140

MASSACHUSETTS

IONOMET COMPANY

MASTERS, JOSEPH I; *VAPOR DEPOSITED SILVER HALIDE THIN FILMS FOR IMPROVED SPARK SOURCE MASS SPECTROMETRY AND ADVANCEMENTS IM MICROLITHOGRAPHY (ISP-7821342 A04)*; $30,346

NEW ALCHEMY INSTITUTE

ZWEIG, RONALD D; *FEASIBILITY OF SMALL SCALE ACQUACULTURE BASED ON RECYCLING OF RENEWABLE RESOURCES (ISP-8016577)*; 15 MONTHS $120,277

UNIVERSITY OF MASSACHUSETTS, AMHERST

STEIN, RICHARD S, AND VOGL, OTTO; *A CENTER FOR UMASS-INDUSTRY RESEARCH ON POLYMERS (ISP-8018103)*; 12 MONTHS $253,000

WORCESTER POLYTECHNIC INSTITUTE

GERSTENFELD, ARTHUR, AND NOONAN, FRANK; *AN INDUSTRY-UNIVERSITY CENTER FOR RESEARCH ON THE MANAGEMENT OF SCIENCE AND TECHNOLOGICAL DEVELOPMENT (ISP-8007660)*; 12 MONTHS $107,275

MICHIGAN

CALVIN COLLEGE

BOSSCHER, JAMES P; *EVALUATION OF CURBSIDE MUNICIPAL SOLID WASTE SORTING SYSTEMS (ISP-8014678)*; 6 MONTHS $15,855

FLOWERFIELD ENTERPRISES

APPELHOF, MARY; *BIODEGRADABLE SOLID WASTE CONVERSION INTO EARTHWORM CASTINGS (ISP-8009755)*; 6 MONTHS $25,000

MICHIGAN STATE UNIVERSITY

MORRISON, DENTON E; *APPROPRIATE TECHNOLOGY FROM A SOCIAL SCIENCE PERSPECTIVE (ISP-8016582)*; 12 MONTHS $72,104

UNIVERSITY OF MICHIGAN

KADLEC, ROBERT H; *SOLIDS MOVEMENT IN WETLANDS (ISP-8014690)*; 12 MONTHS $37,528

WESTERN MICHIGAN UNIVERSITY

KAUFMAN, ROBERT W; *WORKSHOP ON THE ROLE OF EARTHWORMS IN STABILIZATION OF ORGANIC RESIDUES (ISP-7919672 A01)*; $4,389

NEW HAMPSHIRE

ANTIOCH UNIVERSITY-NEW ENGLAND GRADUATE SCHOOL

CADOT, MEADE; *BIOLOGICAL STABILIZATION OF ORGANIC SUBSTANCES IN MUNICIPAL SOLID WASTE BY COMPOSTING (ISP-8015563)*; 24 MONTHS $36,974

NEW MEXICO

NAVAJO COMMUNITY COLLEGE

SCHOEPFLE, G M; *THE APPLICABILITY OF TRADITIONAL NAVAJO DECISION-MAKING TO MODERN ECOLOGICAL CONDITIONS (ISP-8016223)*; 12 MONTHS $56,288

UNIVERSITY OF NEW MEXICO

MAY, GERALD W; *INTERNATIONAL WORKSHOP ON EARTHEN BUILDING MATERIALS AND METHODS IN SEISMIC AREAS (PFR-7919671*)*; 18 MONTHS $30,000

NEW YORK

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

HARTENSTEIN, ROY C; *EARTHWORM - MICROBIAL INTERACTIONS DURING STABILIZATION OF ORGANIC WASTES FOR RECOVERY OF THEIR RESOURCE VALUES (ISP-8008145)*; 12 MONTHS $73,765

RENSSELAER POLYTECHNIC INSTITUTE

WOZNY, MICHAEL J; *UNIVERSITY-INDUSTRY COOPERATIVE RESEARCH CENTER IN COMPUTERAIDED DESIGN (ISP-7920240 A01)*; 12 MONTHS $300,000

OHIO

ELECTRO-CHLOR CORPORATION

MCCALLUM, JOHN; *SMALL PURIFICATION SYSTEMS (ISP-8009390)*; 6 MONTHS $25,000

FLOYD BROWNE ASSOCIATES LIMITED

JONES, ROBERT C; *MANAGING A SMALL SCALE SOLID WASTE RESOURCE RECOVERY FACILITY (ISP-8009904)*; 6 MONTHS $24,793

NATIONAL WATER WELL ASSOCIATION
RITCHEY, JOSEPH D; *DISEQUILIBRIUM OF HYDROGEN SULFIDE IN GROUNDWATER BY AERATION (ISP-8015077)*; 12 MONTHS $22,686

OHIO STATE UNIVERSITY
MC CAULEY, ROY B; *ESTABLISHMENT OF A CENTER FOR WELDING RESEARCH (ISP-8018104)*; 12 MONTHS $264,582

OKLAHOMA

INDUSTRIAL TECHNOLOGY RES & DEVELOP FDN INC
BERGAN, NORMAN A; *APPROPRIATE TECHNOLOGY, INNOVATION, AND NONFARM RURAL DEVELOPMENT (ISP-8020289*)*; 12 MONTHS $149,888
BERGAN, NORMAN A; *APPROPRIATE TECHNOLOGY, INNOVATION, AND NONFARM RURAL DEVELOPMENT (ISP-8020289 A01)*; $6,400

OREGON

GEORGE D WARD & ASSOCIATES
WARD, GEORGE D; *ELIMINATION OF SEPTIC TANK SLUDGE TRANSPORT VIA TRUCK (ISP-8009416)*; 6 MONTHS $24,728
WARD, GEORGE D; *SUSCEPTIBILITY OF MT. ST. HELENS VOLCANIC ASH TO STABILIZATION BY USE OF ORGANIC SLUDGES (ISP-8020281)*; 3 MONTHS $11,687

PENNSYLVANIA

ROY F WESTON INC
DEB, ARUN K; *ALTERNATIVE TECHNOLOGIES FOR SMALL WATER SYSTEM MANAGEMENT (ISP-8015075)*; 12 MONTHS $99,967

WESTINGHOUSE ELECTRIC CORPORATION
HUDSON, CHRISTOPH A; *PROGRAMMABLE ASSEMBLY RESEARCH TECHNOLOGY TRANSFER TO INDUSTRY - PHASE 2 (ISP-7818773 A01)*; 10 MONTHS $303,256

TEXAS

UNIV OF TEXAS AT AUSTIN
RYLANDER, HENRY G; *STUDY OF HOMOPOLAR PULSE RESISTANCE WELDING PARAMETERS FOR RAILROAD RAILS AND AUTOMOTIVE PARTS (ISP-8005918*)*; 18 MONTHS $258,345

UTAH

UNIVERSITY OF UTAH
BROWN, WAYNE S; *UTAH INNOVATION CENTER (ISP-7714687 A03)*; 12 MONTHS $275,800

VERMONT

DUFRESNE-HENRY INC
PYPER, GORDON R; *AN INEXPENSIVE BIOLOGIC METHOD OF UPGRADING LAGOON EFFLUENT (ISP-8009414)*; 6 MONTHS $25,000

VIRGINIA

AEROSPACE RESEARCH CORPORATION
HAMRICK, JOSEPH T; *COST REDUCTION IN IRRIGATION WELL PUMP APPLICATION (ISP-8009275)*; 6 MONTHS $24,952

FORUM INC
CAPALACES, RONALD; *UTILIZATION OF WETLANDS FOR WASTEWATER MANAGEMENT (EAS-7923903 A03)*; 1 MONTHS $14,500

WISCONSIN

DONOHUE & ASSOCIATES INC
VOELKEL, KARL G; *SMALL SCALE RECLAMATION/DISPOSAL OF TOXIC PORCELAIN ENAMELING WASTEWATER SLUDGES (ISP-8009922)*; 6 MONTHS $25,000

ELECTRICAL, COMPUTER AND SYSTEM ENGINEERING

ARIZONA

UNIVERSITY OF ARIZONA
NUDELMAN, SOL; *PHOTOELECTRONIC (VIDEO) RADIOLOGY (ECS-7918518)*; 12 MONTHS $89,983
KORN, GRANINO A; *RESEARCH ON NEW, FAST, DIRECT-EXECUTING PROGRAMS FOR MULTIPLE MICROPROCESSOR SYSTEMS (ECS-7925404)*; 12 MONTHS $59,287
HAMILTON, DOUGLAS J; *SPECIALIZED RESEARCH EQUIPMENT: EQUIPMENT FOR HIGH TEMPERATURE INTEGRATED CIRCUITS (ECS-7925788)*; 12 MONTHS $30,000

ARKANSAS

UNIVERSITY OF ARKANSAS, LITTLE ROCK
PATANGIA, HIRAK C; *RESEARCH INITIATION: REALIZATION OF A DIGITALLY TUNABLE HIGH Q SWITCHED CAPACITOR N-PATH FILTER (ECS-8004949)*; 24 MONTHS $39,937

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY
BELLAN, PAUL M; *EXPERIMENTAL STUDIES OF LOWER HYBRID WAVES ON A QUASI-CW TOKAMAK (ECS-7805784 A01)*; 24 MONTHS $92,000
MEAD, CARVER A; *DESIGN OF SILICON STRUCTURES (MCS-7926347 A01*)*; 12 MONTHS $38,952
YARIV, AMNON; *SEMICONDUCTOR OPTOELECTRONICS (ECS-7909973 A01)*; 12 MONTHS $86,000
YARIV, AMNON; *ULTRA HIGH SPEED SWITCHING DEVICES AND CARRIER DYNAMICS IN SEMICONDUCTORS (ECS-7916915)*; 12 MONTHS $45,000

HUGHES AIRCRAFT COMPANY-HUGHES RESEARCH LABORATORIES
NUDD, GRAHAM R, KUNG, SUN-YUAN, AND NELSON, JOHN E; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: VLSI COMPUTING STRUCTURES (ECS-8016581*)*; 12 MONTHS $28,883

SRI INTERNATIONAL
FISCHLER, MARTIN A; *USE OF RANGE, MULTISPECTRAL INTENSITY, AND INTRINSIC SURFACE PROPERTIES IN THREE-DIMENSIONAL SCENE ANALYSIS (ECS-7917028)*; 24 MONTHS $89,971

STANFORD UNIVERSITY
KINO, GORDON S; *ACOUSTIC WAVE TRANSDUCERS (ECS-7728528 A02)*; 12 MONTHS $44,000
WIDROW, BERNARD; *ADAPTIVE INVERSE MODEL CONTROL (ECS-7808516 A02)*; 12 MONTHS $56,624
KAILATH, THOMAS, AND MORF, MARTIN; *STUDY AND DEVELOPMENT FOR NEW SQUARE-ROOT LEAST-SQUARES ALGORITHMS FOR ESTIMATION IN LARGE-SCALE SYSTEMS (ECS-7810003 A02)*; 12 MONTHS $89,614
LINVILL, JOHN G; *INTEGRATED ELECTRO-MECHANICAL TRANSDUCER SYSTEMS ECS-7822167 A01*)*; 12 MONTHS $66,000
MACOVSKI, ALBERT; *X-RAY IMAGING SYSTEMS USING ENERGY SPECTRUM ANALYSIS (ECS-7823307 A01)*; 12 MONTHS $69,836
COVER, THOMAS M; *MULTIPLE USER CHANNELS AND INFORMATION THEORY (ECS-7823324 A01)*; 12 MONTHS $74,260
SELF, SIDNEY A, AND CRAWFORD, F W; *RELATIVISTIC MICROWAVE MAGNETRONS (ECS-7824569 A01)*; 12 MONTHS $85,000
PANTELL, RICHARD H; *OPTICAL BUNCHING OF FREE ELECTRONS (ECS-7901743 A01)*; 12 MONTHS $61,642
EAVES, B CURTIS; *COMPUTATION OF FIXED POINTS (MCS-7903145 A01*)*; 24 MONTHS $8,995
BATES, CLAYTON W; *PHOTOELECTRON SPECTROSCOPY OF LOW WORK FUNCTION SURFACE LAYERS (ECS-7909453)*; 24 MONTHS $84,773
PEASE, R F; *MICROFABRICATION USING ELECTRON BEAMS (ECS-7911100)*; 12 MONTHS $95,000
HELLMAN, MARTIN E; *DATA SECURITY (ECS-7916161*)*; 24 MONTHS $40,898
SIEGMAN, ANTHONY E; *SPECIALIZED RESEARCH EQUIPMENT: PURCHASE OF A COOLING-WATER SYSTEM (ECS-7925811)*; 12 MONTHS $26,000
GOODMAN, JOSEPH W, AND MACOVSKI, ALBERT; *MULTIPLEXED HOLOGRAPHIC RECONSTRUCTION METHODS FOR THREEDIMENSIONAL STRUCTURES (ECS-7926439*)*; 12 MONTHS $20,187
FEIGENBAUM, EDWARD A; *MOLGEN: A COMPUTER SCIENCE APPLICATION TO MOLECULAR BIOLOGY (ECS-8016247)*; 12 MONTHS $146,582

UNIVERSITY OF CALIFORNIA, BERKELEY
JURY, E I; *RESEARCH IN TWO- AND MULTIDIMENSIONAL DIGITAL FILTERS (ECS-7621816 A02)*; 24 MONTHS $70,000
BRODERSEN, R W, AND DESPAIN, A M; *DEVELOPMENT OF L S I AND MICROPROCESSOR BASED SYSTEMS FOR EFFICIENT ENCODING OF IMAGES AND GRAPHICAL DATA (ECS-7684145 A03)*; $7,000
NEUREUTHER, A R, AND OLDHAM, WILLIAM G; *MODELING AND OPTIMIZATION IN SUBMICRON DEVICE FABRICATION (ECS-7714660 A02)*; 12 MONTHS $80,000
VAN DUZER, T; *JOSEPHSON DEVICES FOR DIGITAL CIRCUITS (ECS-7716659 A02)*; 12 MONTHS $38,900
CHUA, L O; *RESEARCH ON PROBLEMS IN NONLINEAR NETWORKS AND SYSTEMS (ECS-7722745 A02)*; 12 MONTHS $53,000
DESOER, CHARLES A; *RESEARCH IN SYSTEM THEORY (ECS-7809032 A02)*; 12 MONTHS $51,600
WHINNERY, JOHN R; *OPTICAL COMMUNICATIONS DEVICES (ECS-7810233 A02)*; 12 MONTHS $97,000
HODGES, D A, AND SEQUIN, CARLO H; *RESEARCH ON DIGITALLY-PROGRAMMABLE ANALOG SIGNAL PROCESSING (ECS-7811397 A02)*; 12 MONTHS $80,900
LEITMANN, GEORGE; *GUARANTEED PERFORMANCE OF UNCERTAIN SYSTEMS (ECS-7813931 A01)*; 24 MONTHS $57,858
SCHWARZ, STEVEN E; *INFRARED OSCILLATORS AND DETECTORS BASED UPON ELECTRONIC TECHNIQUES (ECS-7813933 A01)*; 12 MONTHS $43,000
BRODERSEN, ROBERT W, AND MESSERSCHMITT, DAVID G; *RESEARCH IN SIGNAL PROCESSING USING HYBRID ANALOG-DIGITAL CIRCUITS (ECS-7816966 A01)*; 12 MONTHS $35,000
ZADEH, LOTFI A; *CONTINUATION OF RESEARCH IN APPLICATION OF THE THEORY OF FUZZY SETS TO THE ANALYSIS OF LARGE-SCALE SYSTEMS AND DECISION PROCESSES (ECS-7823143 A01)*; 12 MONTHS $47,000
KUH, E S, AND PEDERSON, D O; *BASIC RESEARCH IN CIRCUIT LAYOUT AND LARGE-SCALE NETWORKS (ECS-7824425 A01)*; 12 MONTHS $85,000
LICHTENBERG, ALLEN J, AND LIEBERMAN, MICHAEL A; *RESEARCH IN HIGH ENERGY PLASMAS (ECS-7826372 A01)*; 12 MONTHS $68,000
VARAIYA, PRAVIN P; *CONTROL OF LARGE SYSTEMS (ECS-7903879 A01)*; 12 MONTHS $54,300
POLAK, E, AND SANGIOVANNI-VIN, A; *AN OPTIMIZATION-BASED METHODOLOGY FOR COMPUTER-AIDED DESIGN (ECS-7913148)*; 12 MONTHS $80,000

GUSTAFSON, TURE K; *TUNNELING INVESTIGATIONS OF OPTICAL ELECTRONICS (ECS-7933877)*; 12 MONTHS $54,200

STONEBRAKER, MICHAEL R, AND WONG, EUGENE; *SPECIALIZED RESEARCH EQUIPMENT: EQUIPMENT FOR DATABASE MANAGEMENT (ECS-7925759)*; 12 MONTHS $40,000

TURIN, GEORGE L; *COMMUNICATION AND PACKET RADIO SYSTEMS (ECS-7926285)*; 24 MONTHS $60,000

WONG, EUGENE; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: HETEROGENEOUS DATA MODELS AND DISTRIBUTED DATABASE ARCHITECTURE (ECS-8007683*)*; 12 MONTHS $19,660

SCHWARZ, S E; *ENGINEERING SPECIALIZED RESEARCH EQUIPMENT: MILLIMETER - WAVE KLYSTRON (ECS-8009033)*; 12 MONTHS $25,640

LEWIS, EDWIN R; *SPECIALIZED RESEARCH EQUIPMENT: COMPUTER-CONTROLLED STIMULATION APPARATUS FOR THE STUDIES OF THE VESTIBULAR PERIPHERY (ECS-8013776)*; 12 MONTHS $25,700

UNIVERSITY OF CALIFORNIA, DAVIS

FORBES, LEONARD; *CHARACTERIZATION OF SEMI-INSULATING GAAS MATERIALS AND FET DEVICES (ECS-7909955)*; 12 MONTHS $19,173

DIENES, ANDREW J; *SYNCHRONOUSLY PUMPED DOUBLE MODE-LOCKING AND MEASUREMENTS OF PICOSECOND PULSE SHAPES (ECS-7921177)*; 12 MONTHS $53,153

KRENER, ARTHUR J; *NONLINEAR SYSTEMS UNDER FEEDBACK (MCS-8003263*)*; 12 MONTHS $7,196

ALGAZI, V R; *SPECIALIZED RESEARCH EQUIPMENT: ARRAY PROCESSOR FOR THE SIGNAL AND IMAGE PROCESSING LABORATORY (ECS-8014643)*; 12 MONTHS $43,178

UNIVERSITY OF CALIFORNIA, IRVINE

SKLANSKY, JACK; *ANALYSIS AND MODELING OF DIGITIZED TEXTURE BY MARKOV RANDOM FIELDS (ECS-7922010)*; 24 MONTHS $120,000

TSAI, CHEN S; *GUIDED WAVE ACOUSTOOPTIC/ELECTROOPTIC DEVICES IN WIDEBAND OPTICAL COMMUNICATION AND SIGNAL PROCESSING SYSTEMS (ECS-8020998)*; 12 MONTHS $55,155

UNIVERSITY OF CALIFORNIA, LOS ANGELES

GEOFFRION, ARTHUR M, AND GRAVES, GLENN W; *OPTIMIZATION OF LARGE-SCALE SYSTEMS (MCS-7822674 A01*)*; 12 MONTHS $17,500

WILLSON, A N; *CONTINUOUS AND DISCRETE TIME ELECTRIC CIRCUITS (ECS-7911321 A01)*; 12 MONTHS $47,877

ESTRIN, GERALD; *SPECIALIZED RESEARCH EQUIPMENT: HIGH PERFORMANCE COMPUTER GRAPHICS SYSTEMS (ECS-7925914)*; 12 MONTHS $51,005

KARPLUS, WALTER J; *MATHEMATICAL MODELING OF DISTRIBUTED PARAMETER SYSTEMS (ECS-7926058)*; 24 MONTHS $125,707

CHEN, FRANCIS F; *NONLINEAR INTERACTIONS OF CO2 LASER RADIATION WITH PLASMAS (ECS-8003558)*; 12 MONTHS $50,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

HELTON, J WILLIAM; *OPERATOR THEORY MOTIVATED BY THEORETICAL ENGINEERING AND BY PARTIAL DIFFERENTIAL EQUATIONS (MCS-8001698*)*; 12 MONTHS $2,500

SWORDER, DAVID D; *CONTROL OF STOCHASTIC SYSTEMS WITH NON-MARKOVIAN MODAL CHANGES (ECS-8003547)*; 12 MONTHS $30,709

SCHULTZ, SHELDON, AND FREDKIN, DONALD R; *ANALYSIS OF TWO PROBLEMS IN THE FIELD OF SIGNAL PROCESSING (ECS-8005684)*; 12 MONTHS $28,082

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

MITRA, SANJIT K; *DESIGN OF OPTIMUM RECURSIVE DIGITAL FILTERS (ECS-7918028)*; 24 MONTHS $60,000

SKALNIK, JOHN G; *A HIGH-SENSITIVITY DIAGNOSTIC ACOUSTIC IMAGING SYSTEM (ECS-7918779)*; 24 MONTHS $90,010

UNIVERSITY OF SANTA CLARA

NAHMIAS, STEVEN; *SCIENTIFIC MANAGEMENT OF PERISHABLE INVENTORY (ECS-8019486)*; 18 MONTHS $29,550

UNIVERSITY OF SOUTHERN CALIFORNIA

LOUISELL, WILLIAM H; *HIGH POWER FREE ELECTRON AMPLIFIER USING STIMULATED LIGHT SCATTERING (ECS-7623704 A03)*; 12 MONTHS $49,000

HELLWARTH, ROBERT W; *INFRARED AND OPTICAL MICROSCOPY EMPLOYING NONLINEAR OPTICAL TECHNIQUES (ECS-7804774 A02)*; 12 MONTHS $55,000

WITTIG, CURT; *LASER KINETIC SPECTROSCOPY OF ELEMENTARY PROCESSES (ECS-7908598 A01)*; 12 MONTHS $55,000

SILVERMAN, LEONARD M, AND KUNG, SUN-YUAN; *STRUCTURE AND SENSITIVITY OF LINEAR SYSTEMS (ECS-7908673 A01)*; 12 MONTHS $50,000

LEHOVEC, KURT; *GALLIUM ARSENIDE MICRO-TUNNEL DIODES (ECS-7910026*)*; 12 MONTHS $41,925

STRAND, TIMOTHY C; *APPLICATION OF VOLUME HOLOGRAMS TO POLYCHROMATIC PROCESSING (ECS-7919691)*; 24 MONTHS $93,427

WITTIG, CURT; *SPECIALIZED RESEARCH EQUIPMENT: LASER KINETIC SPECTROSCOPY OF ELEMENTARY PROCESSES (ECS-7924592)*; 12 MONTHS $30,000

BEKEY, GEORGE A, AND MENDEL, JERRY M; *PROBLEMS IN PARAMETER ESTIMATION AND IDENTIFICATION (ECS-7926454)*; 12 MONTHS $67,488

GARMIRE, ELSA; *ENGINEERING SPECIALIZED RESEARCH EQUIPMENT: INTEGRATED OPTICAL CIRCUIT FABRICATION (ECS-8014543*)*; 12 MONTHS $16,915

COLORADO

COLORADO STATE UNIVERSITY

COLLINS, GEORGE J; *CW VACUUM ULTRAVIOLET LASER ACTION (ECS-7915588)*; 24 MONTHS $74,998

WILMSEN, CARL W; *SPECIALIZED RESEARCH EQUIPMENT: ACQUISITION OF A SECONDARY ION MASS SPECTROMETER (ECS-7923902)*; 12 MONTHS $28,000

MOLDOVAN, DAN; *RESEARCH INITIATION: SOLUTION OF MATRIX RICCATI DIFFERENTIAL EQUATION ON MICROCOMPUTERS (ECS-8009208)*; 24 MONTHS $40,000

UNIVERSITY OF COLORADO AT BOULDER

HAYES, RUSSELL E; *THE PROPERTIES OF ZINC-DOPED GAINASP (ECS-7911333)*; 12 MONTHS $40,800

MACGREGOR, RONALD J; *COMPUTER SIMULATION OF NEURAL NETWORKS (ECS-7911794)*; 24 MONTHS $56,546

HERMES, HENRY; *SYNTHESIS OF STABILIZING FEEDBACK CONTROLS AND CONTROLLABILITY FOR NONLINEAR SYSTEMS (MCS-7926316*)*; 36 MONTHS $17,500

CONNECTICUT

UNIVERSITY OF CONNECTICUT

PAPANTONI KAZA , PANAYOTA; *MONITORING THE PERFORMANCE OF COMMUNICATION NETWORKS (ECS-7908815)*; 24 MONTHS $63,308

YALE UNIVERSITY

DENARDO, ERIC V, AND ROTHBLUM, URIEL G; *DYNAMIC PROGRAMMING AND ITS USES (ECS-7825182 A01)*; 12 MONTHS $53,500

MA, TSO-PING; *OPTOELECTRONIC PROPERTIES OF TUNNEL JUNCTIONS (ECS 7906933)*; 12 MONTHS $39,909

BALINSKI, MICHEL L; *MATHEMATICAL MODELING AND AXIOMATIZATION OF APPORTIONMENT SCHEMES AND OF GROUP DECISION DEVICES (MCS-7913140 A02*)*; 12 MONTHS $16,060

MORSE, A S; *COLLABORATIVE RESEARCH IN AN INVESTIGATION OF THE RELATIONSHIP BETWEEN THE POLYNOMIAL MATRIX AND GEOMETRIC THEORIES OF LINEAR SYSTEMS (ECS-7916871)*; 24 MONTHS $56,758

KUC, ROMAN; *SIGNAL PROCESSING RESEARCH AND IMPLEMENTATION APPLIED TO DIAGNOSTIC ULTRASOUND SIGNALS (ECS-7919601)*; 12 MONTHS $54,935

CHANG, RICHARD K; *STRUCTURE RESONANCES IN ELASTIC AND INELASTIC LIGHT SCATTERING FROM MICROPARTICLES (ECS-7920113)*; 24 MONTHS $71,190

PROBER, DANIEL E; *SPECIALIZED RESEARCH EQUIPMENT: REACTIVE SPUTTER-ETCHING SYSTEM FOR SOLID-STATE DEVICE RESEARCH (ECS-7923793)*; 12 MONTHS $17,800

PROBER, DANIEL E; *SUBMICRON SUPERCONDUCTING QUANTUM DEVICES (ECS-7927165)*; 12 MONTHS $63,000

PERLIS, ALAN J; *WORKSHOP ON PROGRAMMING ENVIRONMENTS, RIDGEFIELD, CONNECTICUT, JUNE, 1980 (ECS-8012477*)*; 6 MONTHS $5,000

DELAWARE

UNIVERSITY OF DELAWARE

HUNSPERGER, ROBERT G; *THERMAL AND ELECTRICAL TRANSPORT CHARACTERISTICS OF OPTICAL INTEGRATED CIRCUITS (ECS-7720795 A01)*; 12 MONTHS $24,000

NEUTS, MARCEL F; *ALGORITHMIC METHODS FOR STOCHASTIC MODELS (ECS-7908351 A01)*; 12 MONTHS $41,738

DISTRICT OF COLUMBIA

GEORGE WASHINGTON UNIVERSITY

FIACCO, ANTHONY V; *SENSITIVITY ANALYSIS OF CURRENT NONLINEAR PROGRAMMING MODELS OF A WATER POLLUTION ABATEMENT SYSTEM UNDER VARIOUS ENVIRONMENTAL CONTROL POLICIES (ECS-7906104 A01)*; 12 MONTHS $32,815

SOLAND, RICHARD M; *INTERACTIVE METHODS OF MULTICRITERIA OPTIMIZATION (ECS-7911909 A01)*; 12 MONTHS $42,580

HOWARD UNIVERSITY

CHOWDHARY, RAJ; *SPECIALIZED RESEARCH EQUIPMENT: SEMI-AUTOMATIC NETWORK ANALYZER (ECS-7925822)*; 12 MONTHS $50,320

FLORIDA

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

HEARN, DONALD W; *DECOMPOSITION TECHNIQUES FOR NONLINEAR COST MULTICOMMODITY FLOW PROBLEMS (ECS-7925065)*; 12 MONTHS $30,523

UNIVERSITY OF FLORIDA

TOU, JULIUS T; *ADVANCED AUTOMATION (ECS-7726748 A02)*; 12 MONTHS $60,556

VAN-DER-ZIEL, A; *SUPPORT OF THE 2ND SYMPOSIUM ON 1/F FLUCTUATIONS; ORLANDO, FLORIDA; MARCH 17-19, 1980 (ECS-7926526)*; 6 MONTHS $3,894

FRANCIS, RICHARD L; *NETWORK LOCATION PROBLEMS (ECS-8007110)*; 24 MONTHS $45,135

UNIVERSITY OF MIAMI

SUMANTH, DAVID J; *RESEARCH INITIATION - CONCEPTUAL AND ANALYTICAL MODELS OF PRODUCTIVITY PLANNING AND IMPROVE-*

MENT IN MANUFACTURING COMPANIES (ECS-8008059); 24 MONTHS $39,996

UNIVERSITY OF SOUTH FLORIDA

WOLFOWITZ, JACOB; *STUDIES IN INFORMATION THEORY (ECS-7908337*)*; 24 MONTHS $26,996

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

MERSEREAU, RUSSELL M, AND SCHAFER, RONALD W; *REPRESENTATION AND PROCESSING OF SIGNALS IN TWO-DIMENSIONAL FORM (ECS-7817901 A01)*; 12 MONTHS $37,532

MERSEREAU, RUSSELL M, AND SCHAFER, RONALD W; *REPRESENTATION AND PROCESSING OF SIGNALS IN TWO-DIMENSIONAL FORM (ECS-7817901 A02)*; $8,301

BAZARAA, MOKHTAR S; *FINITELY CONVERGENT CUTTING PLANT METHODS FOR SOLVING THE QUADRATIC ASSIGNMENT PROBLEM (ECS-7908375 A01)*; 12 MONTHS $30,727

GAYLORD, THOMAS K; *PHOTOREFRACTIVE EFFECT AND VOLUME GRATING DIFFRACTION IN ELECTRO-OPTIC CRYSTALS (ECS-7919592*)*; 24 MONTHS $25,000

HUDDLESTON, GENE K, JOY, EDWARD B, AND LEACH, WILLIAM M; *SPECIALIZED RESEARCH EQUIPMENT: AUTOMATED RADIATION LABORATORY (ECS-7923613)*; 12 MONTHS $35,000

JEROSLOW, ROBERT G; *NONLINEAR PROGRAMMING AND CUTTING-PLANE THEORY (ECS-8001763*)*; 12 MONTHS $15,000

PLATZMAN, LOREN K; *STEADY-STATE FINITE-DIMENSIONAL DISCRETE-TIME STOCHASTIC CONTROL (ECS-8020637)*; 14 MONTHS $16,641

HAWAII

UNIVERSITY OF HAWAII-MANOA

ABRAMSON, NORMAN; *PACKET BROADCASTING NETWORKS (ECS-7812284 A01)*; 12 MONTHS $44,000

BARBER, RICHARD J; *PACIFIC TELECOMMUNICATIONS CONFERENCE 1980 (ECS-7913017)*; 7 MONTHS $4,000

IDAHO

UNIVERSITY OF IDAHO

MAKI, GARY K; *L S I DESIGNS FOR ASYNCHRONOUS SEQUENTIAL CIRCUITS (ECS-8005349)*; 24 MONTHS $33,795

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

DELLER, JOHN R; *RESEARCH INITIATION - EFFECTS OF CERTAIN NONSTATIONARITIES ON LINEAR PREDICTIVE CODING WITH IMPLICATIONS FOR THE ANALYSIS OF PATHOLOGIC SPEECH (ECS-8006566)*; 24 MONTHS $40,000

NORTHWESTERN UNIVERSITY

HAKIMI, S LOUIS; *APPLICATION OF GRAPH THEORY TO PROBLEMS IN NETWORKS AND FAULT ANALYSIS IN DIGITAL SYSTEMS (ECS-7909724 A01)*; 12 MONTHS $52,377

MARHIC, MICHEL E; *WHISPERING-GALLERY GUIDES FOR FLEXIBLE LASER DELIVERY (ECS-7910394)*; 24 MONTHS $80,926

UNIVERSITY OF CHICAGO

GOULD, FLOYD J; *HOMOTOPY AND PIVOTAL METHODS (ECS-7920177)*; 12 MONTHS $40,285

LEVI-SETTI, RICCARDO; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DEVELOPMENT OF A NEW HIGH-RESOLUTION SCANNING ION MICROPROBE (DMR-8007978*)*; 12 MONTHS $9,999

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

RHODES, CHARLES K; *STUDIES OF TWO-PHOTON EXCITATION AND COLLISIONAL PROCESSES IN MOLECULAR HYDROGEN AND OTHER SIMPLE ATOMIC AND MOLECULAR SYSTEMS (PHY-7827610 A02*)*; $20,000

CHANG, SHI KUO; *PICTURE ALGEBRA AND PICTURE DATA STRUCTURES (ECS-8005853)*; 12 MONTHS $37,179

CONANT, ROGER C; *STRUCTURE ANALYSIS OF COMPLEX GENERAL SYSTEMS (ECS-8011261)*; 24 MONTHS $56,000

UNIVERSITY OF ILLINOIS AT URBANA

DUNN, FLOYD; *INTERACTION OF ULTRASOUND AND BIOLOGICAL MEDIA (ECS-7720934 A02)*; 12 MONTHS $73,673

KUO, BENJAMIN C; *RESONANCE AND INSTABILITY OF STEP MOTORS (ECS-7910829)*; 24 MONTHS $83,527

POOR, HAROLD V; *MEMORY-CONSTRAINED SIGNAL DETECTION SYSTEMS (ECS-7916453)*; 24 MONTHS $43,517

COLEMAN, PAUL D; *METAL-OXIDATION REACTION KINETICS AND SHORT PULSE DETECTION IN THE FAR INFRARED (ECS-7916455)*; 12 MONTHS $66,350

STILLMAN, G E; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH PROGRAM: AVALANCHE PHOTODIODES USING QUATERNARY ALLOYS FOR FIBER OPTICAL COMMUNICATION SYSTEMS (ECS-7917581*)*; 24 MONTHS $67,0...

CRUZ, JOSE B, KOKOTOVIC, P V, AND PERKINS, W R; *LARGE-SCALE SYSTEMS (ECS-7918396)*; 12 MONTHS $139,152

DE TEMPLE, THOMAS A; *MULTIPHOTON INTERACTIONS (ECS-8003545)*; 24 MONTHS $89,052

EDEN, J G; *ULTRAVIOLET PHOTODISSOCIATION OF RARE GAS IONS (CPE-8006378*)*; 24 MONTHS $54,000

LICHTNER, MICHAEL R; *RESEARCH INITIATION - THE USE OF MULTIPLE CRITERION OPTIMIZATION FOR THE FREQUENCY DOMAIN DESIGN OF ELECTRONIC CIRCUITS (ECS-8007975)*; 24 MONTHS $40,996

SMITH, LESLIE G; *SPECIALIZED RESEARCH EQUIPMENT: ACQUISITION OF A LOGIC STATE ANALYZER (ECS-8015158)*; 12 MONTHS $5,315

STILLMAN, G E; *HIGH-SENSITIVITY WIDE-BANDWIDTH SPECTRUM ANALYZER (ECS-8016527)*; 12 MONTHS $27,250

HOLONYAK, NICK J; *LUMINESCENCE AND LASER STUDIES IN III-V SEMICONDUCTORS (DMP-8017939*)*; 12 MONTHS $30,000

INDIANA

PURDUE UNIVERSITY

FU, KING-SUN; *PATTERN RECOGNITION AND PICTURE PROCESSING (ECS-7816970 A01)*; 12 MONTHS $105,468

FU, KING-SUN; *PATTERN RECOGNITION AND PICTURE PROCESSING (ECS-7816970 A02)*; $10,551

PIERRET, ROBERT F, AND GUNSHOR, ROBERT L; *MONOLITHIC SURFACE ACOUSTIC WAVE STRUCTURES (ECS-7826608 A01)*; 12 MONTHS $62,554

GEDDES, LESLIE A; *A NEW ELECTRICAL METHOD FOR MEASURING THE OUTPUT OF THE HEART (ECS-7838081 A01)*; 12 MONTHS $50,000

COOPER, GEORGE R; *SPREAD-SPECTRUM TECHNIQUES FOR AN INTERFERENCE-LIMITED ENVIRONMENT (ECS-7919131)*; 24 MONTHS $78,914

NEWHOUSE, VERNON L; *TRANSCUTANEOUS ULTRASOUND MEASUREMENT OF DISTURBED BLOOD FLOW PARAMETERS (ECS-7916498)*; 12 MONTHS $60,803

SARIDIS, GEORGE N; *ADVANCED INTELLIGENT CONTROL FOR TRAINABLE MANIPULATORS (ECS-7916382)*; 12 MONTHS $65,000

HAAS, VIOLET B; *SINGULAR OPTIMAL CONTROL (ECS-7918885)*; 24 MONTHS $49,998

BASS, STEVEN C; *SPECIALIZED RESEARCH EQUIPMENT: A SOFTWARE BASED DIGITAL SIGNAL PROCESSING SYSTEM (ECS-7921322)*; 12 MONTHS $12,410

BERKOVITZ, LEONARD D; *DIFFERENTIAL GAMES AND OPTIMAL CONTROL (MCS-7927137*)*; 12 MONTHS $9,120

RAVINDRAN, ARUNACHAL A, AND MOSKOWITZ, HERBERT M; *MULTI ATTRIBUTE AND MULTIPLE CRITERIA APPROACHES FOR DETERMINING BAYESIAN ACCEPTANCE PLANS IN QUALITY CONTROL AND AUDITING (ECS-8007103)*; 12 MONTHS $23,550

LOWE, TIMOTHY J; *NETWORK LOCATION PROBLEMS (ECS-8007104)*; 24 MONTHS $46,883

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

MICHEL, ANTHONY N, AND MILLER, RICHARD K; *QUALITATIVE ANALYSIS OF LARGE-SCALE DYNAMICAL SYSTEMS (ECS-7728446 A02)*; 12 MONTHS $52,870

UNIVERSITY OF IOWA

KORPEL, ADRIANUS; *NONLINEAR ACOUSTIC WAVE EFFECTS (ECS-7902889 A01)*; 12 MONTHS $44,000

TUGNAIT, JITENDRA K; *RESEARCH INITIATION: ESTIMATION AND IDENTIFICATION FOR STOCHASTIC SYSTEMS WITH JUMP PARAMETERS (ECS-8005956)*; 24 MONTHS $39,731

KANSAS

KANSAS STATE UNIVERSITY

AHMED, NASIR; *SATELLITE COMPUTER GRAPHICS (ECS-8006963)*; 12 MONTHS $47,000

KENTUCKY

UNIVERSITY OF KENTUCKY

LINDQUIST, ANDERS, AND WETS, ROGER; *STOCHASTIC SYSTEMS (ECS-7904731 A01)*; 12 MONTHS $44,679

NASAR, S A; *AN INVESTIGATION OF CERTAIN MODES OF OPERATION OF NOVEL TRANSFER-FIELD (TF) MACHINES (ECS-7915804)*; 24 MONTHS $66,608

WETS, ROGER; *NONDIFFERENTIABLE OPTIMIZATION (ECS-7923272*)*; 12 MONTHS $98

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

PORTER, WILLIAM A; *OPERATOR METHODS FOR SENSITIVITY, ADAPTIVITY, AND PARAMETER ESTIMATION (ECS-7818871 A01)*; 12 MONTHS $44,965

HARLOW, CHARLES A; *SPECIALIZED RESEARCH EQUIPMENT: EQUIPMENT FOR SYSTEMS AND IMAGE ANALYSIS (ECS-7925791)*; 12 MONTHS $50,000

MARYLAND

JOHNS HOPKINS UNIVERSITY

GOLDSTEIN, MOISE H; *CUTANEOUS COMMUNICATION AIDS FOR THE DEAF (ECS-7908527 A02)*; 12 MONTHS $50,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

LEE, CHI H; *PHOTOCONDUCTIVITY EFFECTS IN SEMICONDUCTORS FOR PICOSECOND OPTOELECTRONIC DEVICES (ECS-7906962 A02)*; 12 MONTHS $42,346

KANAL, LAVEEN N; *PATTERN RECOGNITION AND PROBLEM SOLVING RESEARCH (ECS-7922159 A01*; 12 MONTHS $74,000

SILVERMAN, J; *ENGINEERING METHODS IN PLASMA SCIENCE (ECS-7907781)*; 12 MONTHS $36,560

TAYLOR, LEONARD S; *IMPLANTABLE MICROWAVE APPLICATORS (ECS-7910021)*; 24 MONTHS $57,828

ROSENFELD, AZRIEL, AND O'LEARY, DIANNE P; *REPRESENTATION AND CONTROL IN COMPUTER VISION: MULTILEVEL RELAXATION APPROACHES (MCS-7918455*)*; 12 MONTHS $30,000

LEE, CHI H; *SPECIALIZED RESEARCH EQUIPMENT: LASER CONTROLLED MILLIMETER-WAVE DEVICES (ECS-7919933)*; 12 MONTHS $30,000

MASSACHUSETTS

HARVARD UNIVERSITY

HO, YU-CHI; *LARGE-SCALE SYSTEMS AND MANY PERSON OPTIMIZATION (ECS-7815231 A01)*; 12 MONTHS $44,500

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

JOHNSON, TIMOTHY L; *ELECTRODE PROPERTIES AND THE MEASUREMENT OF BIOELECTRIC PHENOMENA (ECS-7703500 A02)*; 3 MONTHS $5,000

SENTURIA, STEPHEN D; *INTEGRATED SENSING DEVICES BASED ON THE CHARGE-FLOW TRANSISTOR (ECS-7717919 A02)*; 12 MONTHS $44,000

KENNEDY, ROBERT S, AND EPSTEIN, DAVID J; *AN INVESTIGATION OF OPTICAL COMMUNICATIONS SYSTEMS FOR IMPROVED LOW-VISIBILITY COMMUNICATION (ECS-7821603 A01)*; 12 MONTHS $88,000

KONG, JIN-AU; *REMOTE SENSING WITH ELECTROMAGNETIC WAVES (ECS-7822145 A01)*; 12 MONTHS $44,000

REKEFI, GEORGE, DUPREE, THOMAS, AND BERS, ABRAHAM; *PLASMA DYNAMICS (ECS-7907047 A01)*; 12 MONTHS $365,000

HAUS, HERMANN A; *SURFACE ACOUSTIC WAVE GRATINGS AND MULTISTRIP COUPLERS (ECS-7908880 A01)*; 12 MONTHS $47,000

FONSTAD, CLIFTON G; *QUATERNARY HETEROJUNCTION PHOTOTRANSISTORS AT 1.3 MICRONS (ECS-7914179)*; 24 MONTHS $95,000

MCCLELLAN, JAMES H; *DIGITAL SIGNAL PROCESSING (ECS-7915226)*; 24 MONTHS $80,500

TEMKIN, RICHARD J; *HIGH POWER, TUNABLE, LASER-PUMPED MOLECULAR LASERS (ECS-7915257)*; 24 MONTHS $85,000

HAUS, HERMANN A. AND FONSTAD, CLIFTON G; *DEVICES FOR HIGH-RATE OPTICAL COMMUNICATIONS (ECS-7918475)*; 12 MONTHS $60,000

GALLAGER, ROBERT; *THE DYNAMICS OF DATA NETWORK RESEARCH (ECS-7918880*)*; 12 MONTHS $90,630

BERTSEKAS, DIMITRI; *COMPUTATIONAL METHODS FOR NONLINEAR PROGRAMMING AND OPTIMAL CONTROL (ECS-7920824)*; 12 MONTHS $54,000

COHEN, RICHARD J; *RANDOM PROCESS ANALYSIS OF BEAT-TO-BEAT FLUCTUATIONS IN ELECTROCARDIOGRAPHIC PARAMETERS (ECS-7922091)*; 12 MONTHS $55,000

GATOS, HARRY C, AND LAGOWSKI, JOSEPH J; *PREPARATION AND CHARACTERIZATION OF GALLIUM ARSENIDE STRUCTURES (ECS-7923741*)*; 12 MONTHS $23,000

ABELSON, HAROLD; *INFORMATION TRANSFER IN DISTRIBUTED COMPUTATIONS (MCS-7924546*)*; 24 MONTHS $15,000

MAGNANTI, THOMAS L; *NETWORK ANALYSIS AND OPTIMIZATION (ECS-7925235)*; 12 MONTHS $80,179

WYATT, JOHN L; *RESEARCH INITIATION - NONLINEAR NETWORK THEORY, WITH APPLICATIONS TO ENERGY OPTIMIZATION AND MEMBRANE TRANSPORT (ECS-8006378)*; 24 MONTHS $40,000

IPPEN, ERICH P; *ENGINEERING SPECIALIZED RESEARCH EQUIPMENT: PICOSECOND DEVICE DIAGNOSTICS (ECS-8014975)*; 12 MONTHS $62,800

ZAHN, MARKUS; *HIGH VOLTAGE CONDUCTION AND BREAKDOWN PHENOMENA IN DIELECTRICS (ECS-8013837*)*; 24 MONTHS $46,552

SOUTHEASTERN MASSACHUSETTS UNIVERSITY

RUTMAN, ROMAN S; *ILL-POSED INVERSE PROBLEMS OF SYSTEMS THEORY (ECS-8007109)*; 24 MONTHS $28,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

NAVON, DAVID H; *THERMAL STABILITY OF V-MOS POWER TRANSISTORS (ECS-7901819 A01)*; 12 MONTHS $40,765

WOLF, JACK K, AND TOWSLEY, DONALD F; *ON THE ANALYSIS AND SYNTHESIS OF COMPUTER - COMMUNICATION NETWORKS (ECS-7921140)*; 12 MONTHS $49,967

HILL, FRANCIS S, AND FRANKS, LEWIS E; *SIMPLIFIED IMPLEMENTATION OF DIGITAL SIGNAL PROCESSORS BASED ON DELTA MODULTION ENCODING (ECS-8005488)*; 12 MONTHS $30,135

SMITH, J MACGREG; *RESEARCH INITIATION - A GENERALIZED QUEUING NETWORK (GQN) MODEL FOR PUBLIC BUILDING ENVIRONMENTS (ECS-8006709)*; 17 MONTHS $37,344

DJAFERIS, THEODORE E; *RESEARCH INITIATION: THE GENERALIZED POLE ASSIGNMENT PROBLEM (ECS-8006396)*; 24 MONTHS $39,876

UNIVERSITY OF MASSACHUSETTS, BOSTON

BARD, JONATHAN F; *RESEARCH INITIATION - MULTI-LEVEL PROGRAMMING (ECS-8006883)*; 24 MONTHS $32,676

WORCESTER POLYTECHNIC INSTITUTE

SCHALKOFF, ROBERT J; *RESEARCH INITIATION - SCENE MODELLING AND ALGORITHM DEVELOPMENT FOR AUTOMATIC VIDEO TRACKING SYSTEMS (ECS-8006580)*; 24 MONTHS $40,000

MICHIGAN

MICHIGAN STATE UNIVERSITY

CHEN, KUN MU; *INTERACTION OF NEAR-ZONE EM FIELD WITH HUMAN BODY (ECS-8001772)*; 24 MONTHS $77,734

JAIN, ANIL K, AND DUBES, RICHARD C; *STRUCTURE OF MULTIDIMENSIONAL PATTERNS (ECS-8007106)*; 12 MONTHS $38,804

UNIVERSITY OF MICHIGAN

CHEN, KAN; *SYNTHESIS OF QUALITATIVE SCENARIOS WITH QUANTITATIVE MODELS FOR LONG-RANGE SOCIOTECHNOLOGICAL SYSTEMS PROJECTION (ECS-7826548 A01)*; 12 MONTHS $53,500

LEITH, EMMETT N, AND UPATNIEKS, JURIS; *ACHROMATIC INTERFEROMETRY USING HOLOGRAPHIC OPTICAL ELEMENTS (ECS-7901647 A01)*; 12 MONTHS $49,000

WISE, KENSALL D; *PROCESSING TECHNIQUES FOR SILICON MICROSTRUCTURES (ECS-7916459)*; 24 MONTHS $110,000

NEUHOFF, DAVID L; *EXTENDING THE THEORY OF SOURCE CODING (ECS-7921075)*; 24 MONTHS $53,855

ROOT, WILLIAM L; *DYNAMICAL SYSTEM THEORY AND THE IDENTIFIABILITY OF SYSTEMS (ECS-8005960)*; 24 MONTHS $82,427

PETERSON, DEAN F; *ENGINEERING SPECIALIZED RESEARCH EQUIPMENT: MILLIMETER-WAVE DIAGNOSTICS (ECS-8012977)*; 12 MONTHS $14,515

WAYNE STATE UNIVERSITY

SHAW, MELVIN P; *NON-CRYSTALLINE THIN FILM DEVICES (ECS-7817666 A01)*; 12 MONTHS $46,000

METENER, JOHN J; *FEEDBACK TECHNIQUES IN DATA COMMUNICATION NETWORKS (ECS-7907220)*; 24 MONTHS $69,965

LIN, JAMES C; *STUDIES OF MICROWAVE AUDITORY PHENOMENON (ECS-7920023)*; 24 MONTHS $90,000

DELLA TORRE, EDWARD; *THE STRUCTURE OF SUBMICRON MAGNETIC BUBBLES (ECS-7923628)*; 12 MONTHS $32,000

MINNESOTA

UNIVERSITY OF MINNESOTA

LEE, E B; *ANALYSIS AND DESIGN TECHNIQUES FOR CONTROL SYSTEMS WITH A DISTRIBUTIVE STRUCTURE (TIME DELAYS) (ECS-7709388 A02)*; 24 MONTHS $84,645

SHENOI, B A; *IMAGE RESTORATION VIA IDENTIFICATION OF THE BLURRING FUNCTION (ECS-7906555)*; 12 MONTHS $30,095

ROBBINS, WILLIAM P; *MAGNETIC THIN FILMS FOR SURFACE ACOUSTIC WAVE DEVICES (ECS-7924366)*; 12 MONTHS $52,000

MUELLER, R K, AND KAVEH, MOSTAFA; *DIFFRACTION TOMOGRAPHY (ECS-7926068)*; 12 MONTHS $100,220

SHUR, MICHAEL; *INVESTIGATIONS OF INTERSTELLAR MATERIAL IN THE GALAXY AND IN THE GALACTIC CENTER (ECS-8008341*)*; 21 MONTHS $100,600

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI

TEW, MARK D; *RESEARCH INITIATION - SCATTERING CURRENTS INDUCED AT VERTICES BY VECTOR ELECTROMAGNETIC FIELDS (ECS-8006362)*; 17 MONTHS $39,968

MISSOURI

UNIVERSITY OF MISSOURI, ROLLA

STULLER, JOHN A; *TELEVISION IMAGE MOTION ESTIMATION (ECS-7916459)*; 24 MONTHS $64,457

WASHINGTON UNIVERSITY

MULLER, MARCEL W; *THEORY OF SELF-STRUCTURED BUBBLE DEVICES (ECS-7913991)*; 24 MONTHS $80,000

MUKAI, HIROAKI; *PARALLEL ALGORITHMS FOR OPTIMIZATION (ECS-7921160)*; 24 MONTHS $60,978

NEW HAMPSHIRE

DARTMOUTH COLLEGE-THAYER SCHOOL OF ENGINEERING

HANSEN, ERIC W; *RESEARCH INITIATION - OPTICAL IMAGE RECONSTRUCTION FROM PROJECTIONS (ECS-8006904)*; 24 MONTHS $39,746

NEW JERSEY

PRINCETON UNIVERSITY

STEIGLITZ, KENNETH; *RESEARCH ON ALGORITHMS FOR DIGITAL SIGNAL PROCESSING (ECS-7916292)*; 24 MONTHS $81,166

THOMAS, JOHN B, AND LIU, BEDE; *DISCRETE-TIME SIGNALS AND THEIR PROCESSING (ECS-7918915)*; 12 MONTHS $41,540

RUTGERS UNIVERSITY-BUSCH CAMPUS

LI, JOHN K; *RESEARCH INITIATION - CARDIOVASCULAR DYNAMICS - SOME BASIC RESEARCH AND DIAGNOSTIC APPLICATIONS (ECS-8006747)*; 24 MONTHS $36,709

SEMMLOW, JOHN L; *SPECIALIZED RESEARCH EQUIPMENT: OCULOMOTOR EXPERIMENTAL PACKAGE (ECS-8014541)*; 12 MONTHS $20,960

NEW MEXICO

UNIVERSITY OF NEW MEXICO

DORATO, PETER, KNUDSEN, HAROLD K, AND SANCHEZ, DAVID A; *PERIODIC OPTIMIZATION WITH APPLICATIONS TO SOLAR TEMPERATURE-CONTROL SYSTEMS (ECS-8003542)*; 24 MONTHS $99,994

NEW YORK

CLARKSON COLLEGE OF TECHNOLOGY

MCGRATH, PAUL B; *AN ULTRA HIGH SPEED LIQUID BREAKDOWN STUDY* (ECS-7914622); 12 MONTHS $49,976

COLUMBIA UNIVERSITY

SCHWARTZ, MISCHA, AND STERN, THOMAS E; *COMPUTER COMMUNICATION NETWORKS* (ECS-7808380 A02); 12 MONTHS $84,071

SEN, AMIYA K; *TRAPPED ION INSTABILITIES AND THEIR CONTROL* (ECS-7917033); 24 MONTHS $142,469

TSIVIDIS, YANNIS P, AND WING, OMAR; *ANALYSIS, FUNDAMENTAL PROPERTIES, AND SIMULATION OF SWITCHED-CAPACITOR NETWORKS* (ECS-7922109); 24 MONTHS $98,236

SCHWARTZ, MISCHA, BASHKOW, THEODORE R, AND STERN, THOMAS E; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH (IUCR): DATA NETWORKS AND SATELLITE COMMUNICATIONS* (ECS-7925092*); 12 MONTHS $15,147

PRUCNAL, PAUL R; *RESEARCH INITIATION -- FM OPTICAL FIBER COMMUNICATIONS* (ECS-8006881); 24 MONTHS $40,000

CORNELL UNIVERSITY

WOLF, EDWARD D; *NATIONAL RESEARCH AND RESOURCE FACILITY FOR SUBMICRON STRUCTURES* (ECS-7709698 A03); 12 MONTHS $825,000

CARLIN, HERBERT J; *DIELECTRIC WAVE GUIDE NETWORKS* (ECS-7811525 A01); 12 MONTHS $62,990

SIEGEL, BENJAMIN M; *DIGITAL IMAGE PROCESSING OF HIGH RESOLUTION ELECTRON MICROSCOPE IMAGES* (ECS-7909093 A01); 12 MONTHS $91,895

BLAND, ROBERT G; *STUDIES IN LINEAR PROGRAMMING* (ECS-7910807 A01); 12 MONTHS $34,200

TODD, MICHAEL J; *SPECIAL STRUCTURE IN SIMPLICIAL ALGORITHMS* (ECS-7921279*); 12 MONTHS $13,983

BERGER, TOBY; *STUDIES IN MULTITERMINAL COMMUNICATION, INFORMATION AND DECISION THEORY* (ECS-7921976); 12 MONTHS $35,370

NEMHAUSER, GEORGE L; *TOPICS IN COMBINATORIAL OPTIMIZATION AND ITS APPLICATIONS* (ECS-8005350); 12 MONTHS $66,058

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

TANG, C L, AND BALLANTYNE, JOSEPH M; *NONLINEAR AND ACTIVE OPTICAL DEVICES* (ECS-7809887 A02); 12 MONTHS $99,681

MAHR, HERBERT, AND TANG, C L; *EXPERIMENTAL INVESTIGATION OF SOFT X-RAY LASERS* (ECS-8001768); 12 MONTHS $78,386

CUNY GRADUATE SCHOOL AND UNIVERSITY CENTER

AUSLANDER, LOUIS; *THE ALGORITHMS OF DIGITAL SIGNAL PROCESSING* (ECS-7921291*); 12 MONTHS $24,617

INSTITUTE OF ELECTRICAL & ELECTRONIC ENGRS INC

TEMES, GABOR C; *1980 IEEE INTERNATIONAL SYMPOSIUM ON CIRCUITS AND SYSTEMS: HOUSTON, TEXAS* (ECS-8004447); 6 MONTHS $4,500

NEW YORK UNIVERSITY

SCHWARTZ, JACOB T; *THE VLSI SOFTWARE ARCHITECTURES LABORATORY GRIENTED TOWARD LARGE-SCALE PARALLELISM* (MCS-7921258*); 12 MONTHS $75,000

POLYTECHNIC INSTITUTE OF NEW YORK

GARETZ, BRUCE A; *MOLECULAR TWO-PHOTON POLARIZATION SPECTROSCOPY* (ECS-7908109); 12 MONTHS $35,919

RENSSELAER POLYTECHNIC INSTITUTE

KAUFMAN, HOWARD; *ADAPTIVE CONTROL OF MULTIVARIABLE SYSTEMS WITHOUT THE NEED FOR EXPLICIT PARAMETER INDENTIFICATION* (ECS-7707446 A01); 6 MONTHS $7,100

STECKL, ANDREW J; *INVESTIGATION OF THE LOW TEMPERATURE PROPERTIES OF CHARGE COUPLED DEVICES* (ECS-7808422 A03); 12 MONTHS $52,000

CORELLI, JOHN C; *PHOTOPOPULATION AND PHOTOIONIZATION OF DEFECTS INDUCED IN THE PROCESSING OF SILICON FOR DEVICES* (ECS-7908907); 24 MONTHS $78,000

STARK, HENRY; *APPLICATION OF AN OPTICAL-DIGITAL COMPUTER TO IMAGE PROCESSING* (ECS-7911129); 24 MONTHS $96,000

DAS, PANKAJ K; *ACOUSTIC STRESS MEASUREMENT OF THIN FILMS* (ECS-7918211); 12 MONTHS $40,000

BORREGO, JOSE M, AND GUTMANN, RONALD J; *OPTICAL-MICROWAVE INTERACTIONS IN SOLID-STATE DEVICES* (ECS-7924399); 12 MONTHS $50,000

PEARLMAN, WILLIAM A; *IMAGE CODING WITH A NEW VISUAL ERROR CRITERION* (ECS-8003544*); 12 MONTHS $50,500

STATE UNIVERSITY AT BINGHAMTON

KLIR, GEORGE J; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: COMPUTER-AIDED ANALYSIS OF RECONSTRUCTABILITY OF MANYDIMENSIONAL RELATIONS* (ECS-7818954 A02*); 12 MONTHS $24,796

STATE UNIVERSITY AT BUFFALO

KARWAN, MARK H; *HYBRID SURROGATE DUAL-CUTTING PLANE PROCEDURES IN INTEGER PROGRAMMING* (ECS-8002374); 15 MONTHS $35,181

TANG, GREGORY Y; *RESEARCH INITIATION - PICTURE DATA COMPRESSION WITH CONSIDERATION OF STRUCTURAL INFORMATION* (ECS-8006554); 24 MONTHS $35,035

STATE UNIVERSITY AT STONY BROOK

CHANG, SHELDON S; *DISTRIBUTED SENSING AND CONTROL* (ECS-8007637); 12 MONTHS $25,996

ZORAT, ALEXANDR; *ALGORITHMS AND INTERCONNECTION NETWORKS FOR VLSI* (ECS-8009939); 24 MONTHS $51,471

SYRACUSE UNIVERSITY

KOWEL, STEPHEN T, AND KORNREICH, PHILIPP G; *POLYMERIC DISPLAY DEVICES* (ECS-7821063 A01); 12 MONTHS $42,185

RUDOLPH, LUTHER D, AND HARTMANN, CARLOS R; *DECODING THEORY AND TECHNIQUES* (ECS-7904898 A01); 12 MONTHS $39,486

HARRINGTON, ROGER F; *ELECTROMAGNETIC TRANSMISSION THROUGH HOLES, SLOTS, AND CAVITIES IN THICK CONDUCTORS* (ECS-7921354); 12 MONTHS $28,066

UNIVERSITY OF ROCHESTER

SHAPIRO, SIDNEY; *SUBMICRON JOSEPHSON EFFECT WEAK LINKS* (ECS-7807385 A01); 12 MONTHS $63,008

MOORE, DUNCAN T; *GRADIENT INDEX OPTICAL SYSTEMS* (ECS-7807457 A02); 12 MONTHS $70,100

JACOBSEN, EDWARD H; *ELECTROSTATIC FOIL HIGH RESOLUTION ELECTRON OPTICS* (ECS-7825176 A01); 12 MONTHS $40,000

RAYMER, MICHAEL G; *RESEARCH INITIATION - EXPERIMENTAL INVESTIGATION OF STIMULATED RAMAN SCATTERING WITH BROADBAND LASERS* (ECS-8007064); 24 MONTHS $40,000

STROUD, CARLOS; *ENGINEERING SPECIALIZED RESEARCH EQUIPMENT: TUNABLE LASER FOR RESONANCE SPECTROSCOPY* (ECS-8014544); 12 MONTHS $21,740

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

CHOU, WUSHOW; *STUDIES ON DATA NETWORK ARCHITECTURES* (ECS-7724110 A02); 12 MONTHS $41,975

ELMAGHRABY, SALAH E; *FUNDAMENTAL CONCEPTS IN ACTIVITY NETWORKS AND THE BOUNDS OF THEIR APPLICABILITY* (ECS-7813936 A02); 12 MONTHS $36,658

LITTLEJOHN, MICHAEL A; *SPECIALIZED RESEARCH EQUIPMENT: EQUIPMENT FOR DEEP LEVEL TRANSIENT SPECTROSCOPY* (ECS-7925802); 12 MONTHS $11,780

DUNN, JOSEPH C; *THE BEHAVIOR OF ITERATIVE MINIMIZING SCHEMES NEAR SINGULAR AND NONSINGULAR OPTIMAL CONTROLS* (ECS-8005958); 12 MONTHS $14,252

MASNARI, NINO A; *ION IMPLANTATION IN ILL-V SEMICONDUCTORS* (ECS-8014647); 12 MONTHS $39,000

OHIO

CASE WESTERN RESERVE UNIVERSITY

THOMPSON, ERIC D; *HIGH TEMPERATURE SUPERCONDUCTING JOSEPHSON JUNCTION COMPUTING COMPONENTS* (ECS-7811453 A02); 12 MONTHS $51,112

COLLIN, ROBERT E; *PRIME FOCUS FEEDS FOR PARABOLIC ANTENNAS* (ECS-7910269); 24 MONTHS $75,316

KAPOOR, VIKRAM J; *CHARGE-COUPLED DEVICES WITH SUBMICRON FEATURES* (ECS-8010880); 12 MONTHS $53,469

OHIO STATE UNIVERSITY

MCGHEE, ROBERT B, AND KLEIN, C A; *DYNAMICS AND CONTROL OF INDUSTRIAL MANIPULATORS AND LEGGED LOCOMOTION SYSTEMS* (ECS-7818957 A01); 12 MONTHS $89,160

HEMAMI, HOOSHANG; *MODELLING, CONTROL, AND SIMULATION OF HUMAN LOCOMOTION* (ECS-7924440 A01); 12 MONTHS $44,000

UNIVERSITY OF CINCINNATI

TAYLOR, FRED J; *FAST SPECTRAL ANALYSIS USING RESIDUE ARITHMETIC* (ECS-8001771); 24 MONTHS $44,937

TAYLOR, FRED J; *SPECIALIZED RESEARCH EQUIPMENT: SIGNAL PROCESSING RESEARCH EQUIPMENT* (ECS-8011915); 12 MONTHS $21,000

BOYD, JOE T, AND NEVIN, JOSEPH H; *SPECIALIZED RESEARCH EQUIPMENT: ELECTRON BEAM EVAPORATION SYSTEM* (ECS-8014976); 12 MONTHS $16,000

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

CLEVELAND, JOSEPH; *SPECIALIZED RESEARCH EQUIPMENT: STUDY OF NONTHERMAL FIELDINDUCED EFFECTS IN ORGANIC COPOLYMERS AT MICROWAVE FREQUENCIES* (ECS-8001767); 18 MONTHS $9,330

HADY, M A; *SPECIAL FOREIGN CURRENCY AWARD (EGYPTIAN CURRENCY AND U.S. DOLLARS) FOR USE OF MODERN REMOTE SENSING TECHNIQUES IN MONITORING DESERTIFICATION AND NATURAL RESOURCES* (INT-8005188*); 36 MONTHS $50,000

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

GOLDEN, DAVID E; *STUDY OF ELECTRON IMPACT OF LASER MEDIA* (ECS-7910019); 24 MONTHS $129,430

OREGON

OREGON GRADUATE CENTER

ELLIOTT, RICHARD A; *NEW TECHNIQUES FOR THE DISPLAY AND SHAPING OF PICOSECOND OPTICAL PULSES* (ECS-7908831 A01); 12 MONTHS $44,000

BELL, ANTHONY E, AND SWANSON, LYNWOOD W; *LIQUID METAL FIELD ION SOURCE DEVELOPMENT AND CHARACTERIZATION* (ECS-7918648*); 24 MONTHS $60,210

MASSEY, GAIL A; *NONLINEAR INTERACTIONS OF LIGHT AT OPTICAL SURFACES* (ECS-7901557); 12 MONTHS $60,614

OREGON STATE UNIVERSITY

MOHLER, RONALD R; *MODELING, CONTROL, AND IDENTIFICATION OF BILINEAR SYSTEMS* (ECS-7709987 A01); 24 MONTHS $99,643

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

BALAS, EGON; *INTEGER AND COMBINATIONAL PROGRAMMING* (ECS-7902506 A01*); 12 MONTHS $21,333

CARNEGIE-MELLON UNIVERSITY

CASASENT, DAVID; *SPACE-VARIANT IMAGE AND SIGNAL PROCESSING* (ECS-7720038 A02); 12 MONTHS $71,297

BAHILL, A T; *MODELING INTERACTION OF EYE MOVEMENTS AND LOCOMOTORY CONTROL SYSTEMS* (ECS-7722418 A02); 12 MONTHS $52,127

DIRECTOR, S W, AND SIEWIOREK, DANIEL P; *MULTI-LEVEL COMPUTER AIDED DESIGN OF VLSI DIGITAL SYSTEMS* (ECS-7925755 A01*); 12 MONTHS $84,000

CHARAP, STANLEY H; *MICROWAVE PROPERTIES OF MAGNETIC DOMAIN STRUCTURES* (ECS-7900900 A01); 12 MONTHS $47,627

TUMA, DAVID T; *INVESTIGATION OF ELECTRICAL BREAKDOWN IN VACUUM* (ECS-7908417*); 12 MONTHS $57,928

KRYDER, MARK H, AND CHARAP, STANLEY H; *INVESTIGATION OF CHARGED WALLS IN MAGNETIC BUBBLE DOMAIN DEVICES* (ECS-7912677); 12 MONTHS $100,049

DIRECTOR, S W, BRAYTON, R K, AND HACHTEL, G D; *INDUSTRY/UNIVERSITY COOPERATIVE PROGRAM (IUC) - STATISTICAL DESIGN OF INTEGRATED CIRCUITS* (ECS-7923191*); 24 MONTHS $21,000

SANDERSON, ARTHUR C; *SIGNAL PROCESSING RESEARCH UTILIZING A SYNCHRONOUS MULTIMICROPROCESSOR COMPUTER SYSTEM* (ECS-7923993); 12 MONTHS $68,908

PANG, JONG-SHI; *LARGE SCALE AND GENERALIZED COMPLEMENTARITY SYSTEMS* (ECS-7916310*); 12 MONTHS $18,772

DREXEL UNIVERSITY

YOUNG, K-K D; *ANALYSIS AND DESIGN OF MULTIVARIABLE HIGH GAIN FEEDBACK SYSTEMS* (ECS-7921164); 24 MONTHS $56,300

JARON, DOV; *AN ENGINEERING STUDY OF THE OPTIMIZATION OF IN-SERIES CARDIAC ASSISTANCE* (ECS-7924354); 12 MONTHS $60,962

LEHIGH UNIVERSITY

DAHLKE, WALTER E; *TUNNELING IN M I S STRUCTURES* (ECS-7905917 A02); 12 MONTHS $49,865

FARAONE, LORENZO; *SWITCHING PHENOMENA IN METAL - INSULATOR SILICON DEVICES* (ECS-7906344); 12 MONTHS $80,000

PENNSYLVANIA STATE UNIVERSITY

MONKOWSKI, JOSEPH R; *RESEARCH INITIATION - GROWTH AND CHARACTERIZATION OF LARGE-GRAIN POLYCRYSTALLINE SILICON* (ECS-8006875*); 24 MONTHS $20,000

UNIVERSITY OF PENNSYLVANIA

BAJCSY, RUZENA K, JOSHI, ARAVIND K, AND BADLER, NORMAN I; *SCENE UNDERSTANDING* (MCS-7807446 A02*); 12 MONTHS $67,270

ZEMEL, JAY N; *RESEARCH ON CHEMICALLY SENSITIVE DEVICE STRUCTURES* (ECS-7924554); 12 MONTHS $50,000

UNIVERSITY OF PITTSBURGH

COON, DARRYL D; *DEVICE-RELATED STUDIES OF A NEW EFFECT OF CHARGE STORAGE AND RELEASE IN SEMICONDUCTORS* (ECS-7916441); 24 MONTHS $110,000

RHODE ISLAND

BROWN UNIVERSITY

KUSHNER, HAROLD J; *STOCHASTIC SYSTEMS AND STABILITY THEORY AND APPLICATIONS* (ECS-7712946 A02*); 12 MONTHS $27,390

WOLOVICH, WILLIAM A; *COLLABORATIVE RESEARCH IN AN INVESTIGATION OF THE RELATIONSHIP BETWEEN THE POLYNOMIAL MATRIX AND GEOMETRIC THEORIES OF LINEAR SYSTEMS* (ECS-7916584); 24 MONTHS $65,075

NURMIKKO, ARTO V, AND GERRITSEN, HENDRIK J; *SPECIALIZED RESEARCH EQUIPMENT: A TUNABLE ULTRASHORT PULSE LASER SPECTROMETER* (ECS-7925751); 12 MONTHS $57,100

UNIVERSITY OF RHODE ISLAND

POULARIKAS, ALEXANDER D; *SPECIALIZED RESEARCH EQUIPMENT: ARRAY PROCESSOR AND DIGITIZER FOR IMAGE PROCESSING* (ECS-7925734); 12 MONTHS $27,750

SOUTH CAROLINA

CLEMSON UNIVERSITY

BOLAND, W R; *EXTENDED CONJUGATE GRADIENT METHODS FOR UNCONSTRAINED OPTIMIZATION* (ECS-7901909); 24 MONTHS $39,705

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

GARFUNKEL, ROBERT S; *DEVELOPMENT OF MATHEMATICAL MODELS TO DETERMINE THE OPTIMAL LOCATION OF FACILITIES OBJECTIONABLE TO THE PUBLIC* (SES-8010790*); 15 MONTHS $16,009

VANDERBILT UNIVERSITY

BOURNE, JOHN R; *SPECIALIZED RESEARCH EQUIPMENT: AUTOMATED EEG ANALYSIS* (ECS-7913578); 12 MONTHS $32,216

HARRIS, THOMAS R; *SPECIALIZED RESEARCH EQUIPMENT: A COMPUTING LABORATORY FOR THE SUPPORT OF RESEARCH IN CARDIOVASCULAR TRANSPORT PHENOMENA* (ECS-7920944); 12 MONTHS $37,884

TEXAS

RICE UNIVERSITY

WILSON, WILLIAM L; *NEW PHOTOCONDUCTIVE DETECTORS FOR THE FAR INFRARED* (ECS-7915422); 24 MONTHS $54,969

MIELE, ANGELO; *COMPUTATIONAL METHODS FOR STATIC AND DYNAMIC SYSTEMS AND ENGINEERING APPLICATIONS* (ECS-7918467 A01); 12 MONTHS $51,580

DE FIGUEIREDO, RUI J P; *SPECIALIZED RESEARCH EQUIPMENT: RESEARCH EQUIPMENT FOR SIGNAL ANALYSIS AND IMAGE PROCESSING* (ECS-7925808); 24 MONTHS $26,300

SOUTHERN METHODIST UNIVERSITY

ROHRER, RONALD A; *MACROMODELLING FOR MICROANALYSIS: A GENERAL SIMULATION STRATEGY* (ECS-8007834); 18 MONTHS $37,077

TEXAS A & M UNIVERSITY

GREEN, DOUGLAS M; *RESEARCH INITIATION - AUTOMATED DENSITOMETRIC QUANTIFICATION OF POST-BURN MACROMOLECULAR ACCUMULATION AND DIFFUSIVITY IN THE MICROCIRCULATION* (ECS-8006918); 24 MONTHS $40,000

TEXAS TECH UNIVERSITY

GUNDERSEN, MARTIN A; *AN INNOVATIVE INFRARED DETECTOR* (ECS-7811721 A01); 4 MONTHS $3,825

HAGLER, MARION O, AND KRISTIANSEN, MAGNE; *INVESTIGATIONS OF RF PLASMA HEATING IN TOROIDAL GEOMETRY* (ECS-7925809); 24 MONTHS $110,000

UNIV OF TEXAS AT AUSTIN

LAM, SIMON S; *RESOURCE ALLOCATION FOR COMPUTER COMMUNICATION NETWORKS* (ECS-7901803 A01); $16,262

DAVIS, LARRY S; *HIERARCHICAL RELAXATION FOR SHAPE ANALYSIS* (ECS-7904017 A01); 12 MONTHS $32,107

SPEYER, JASON L; *PERIODIC OPTIMAL CONTROL THEORY* (ECS-7918246); 24 MONTHS $70,000

UNIV OF TEXAS AT EL PASO

WILLIAMS, DAVID H; *SPECIALIZED RESEARCH EQUIPMENT: DIGITAL IMAGE PROCESSING EQUIPMENT* (ECS-7925795); 12 MONTHS $6,786

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

NOORBEHESHT, BEHZAD; *OPTO-ACOUSTIC IMAGING RESEARCH* (ECS-7913259); 12 MONTHS $54,969

VIRGINIA

OLD DOMINION UNIVERSITY

VARANASI, MURALI R, AND DUNNING, LARRY A; *INVESTIGATION OF HIGH-RATE CODES FOR USE IN ARITHMETIC AND MEMORY SYSTEMS* (ECS-8000031); 24 MONTHS $97,239

UNIVERSITY OF VIRGINIA

HARRINGTON, DAVID P; *NONPARAMETRIC STATISTICAL PROCEDURES FOR ONE AND TWO SAMPLES OF CENSORED FAILURE TIME DATA* (MCS-8002537*); 12 MONTHS $5,000

VIRGINIA POLYTECHNIC INSTITUTE

JOHNSON, C R; *ADAPTIVE DIGITAL FILTER ALGORITHMS* (ECS-7908435); 24 MONTHS $63,324

JOHNSON, C R; *DIRECT ADAPTIVE CONTROL OF DISCRETE NON-MINIMUM PHASE PLANTS* (ECS-7918577); 24 MONTHS $24,910

CLAUS, RICHARD O; *ULTRASONIC LEAKY AND STONELEY INTERFACE WAVES ON SOLID-SOLID BOUNDARIES* (ECS-7915340); 12 MONTHS $46,566

TRONT, JOSEPH G; *RESEARCH INITIATION - AN INVESTIGATION OF MULTIPLE-VALUED LOGIC SWITCHING CIRCUITS AND MEMORY ELEMENTS* (ECS-8006916); 24 MONTHS $39,936

HARALICK, ROBERT M; *PARALLEL COMPUTER ARCHITECTURE FOR SOLVING THE CONSISTENT LABELING PROBLEM* (ECS-8013777); 12 MONTHS $14,024

RIAD, SEDKI M; *SPECIALIZED RESEARCH EQUIPMENT: SIGNAL ACQUISITION AND PROCESSING SYSTEM* (ECS-8014572); 12 MONTHS $49,141

HARALICK, ROBERT M, AND ELDRICH, ROGER W; *SPECIALIZED RESEARCH EQUIPMENT: ROBOT ARM AND L S I - 11 CONTROLLER* (ECS-8014641); 12 MONTHS $16,356

WASHINGTON

UNIVERSITY OF WASHINGTON

HUTCHINSON, THOMAS E; *ELECTRON RADIATION INDUCED ALTERATION OF POLYMERS AND BIOTISSUE* (ECS-7918013); 24 MONTHS $62,150

RUSSO, WALTER J; *COMPUTATIONAL COMPLEXITY THEORY FOR HIGHLY PARALLEL SYSTEMS* (ECS-8007439); 24 MONTHS $51,791

WASHINGTON STATE UNIVERSITY

MANWARING, MARK L; *RESEARCH INITIATION - DEVELOPMENT OF A DIGITAL SYSTEM CONTROLLER WHICH IS DIRECTLY PROGRAMMABLE IN A HIGH LEVEL LANGUAGE* (ECS-8006040); 24 MONTHS $10,504

WISCONSIN

MEDICAL COLLEGE OF WISCONSIN

ACKMANN, JAMES J; *STUDIES OF THE AC ELECTRICAL BEHAVIOR OF HETEROGENEOUS COMPOSITE BIOLOGICAL SYSTEMS* (ECS-7910145); 12 MONTHS $52,556

UNIVERSITY OF WISCONSIN-MADISON

SCHARER, JOHN E; *ION CYCLOTRON HARMONIC AND NONLINEAR ELECTRON CYCLOTRON PLASMA WAVE STUDIES* (ECS-7909153); 12 MONTHS $62,540

NORDMAN, JAMES E; *JOSEPHSON TUNNEL JUNCTIONS USING HARD SUPERCONDUCTORS* (ECS-7925950); 24 MONTHS $92,000

SHOHET, J L; *MICROWAVE AND ELECTROMAGNETIC HEATING OF AND INTERACTIONS WITH PLASMAS IN LINEAR AND TOROIDAL GEOMETRY* (ECS-7915418); 24 MONTHS $146,500

SMITH, S DIANE; *RESEARCH INITIATION: LSI DESIGN OF INTERCONNECTION NETWORKS FOR PARTITIONABLE PARALLEL PROCESSING SYSTEM* (ECS-8006335); 24 MONTHS $40,000

UNIVERSITY OF WISCONSIN-MILWAUKEE

WECHSLER, HARRY M; *MACHINE ANALYSIS OF TEXTURE CHARACTERISTICS* (ECS-7913216); 24 MONTHS $57,522

LEVY, MOISES; *INVESTIGATION OF MAGNETIC FILMS FOR DEVELOPMENT OF VARIABLE AMPLITUDE AND FREQUENCY SAW FILTERS* (ECS-8001773*); 12 MONTHS $14,994

SAHIN, IZZET; *ANALYSIS OF CONTINUOUS REVIEW (S, S) INVENTORY SYSTEMS WITH LEAD TIMES* (ECS-8011916); 12 MONTHS $15,000

CHEMICAL AND PROCESS ENGINEERING

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

STEPHANOPOULOS , GREGORY; *DYNAMICS AND POSSIBILITIES OF COEXISTENCE OF COMPETING MICROBIAL POPULATIONS* (CPE-7914810); 24 MONTHS $64,340

BAILEY, JAMES E; *STUDIES OF THE DYNAMICS OF INDIVIDUAL CELLS AND MICROBIAL POPULATIONS* (CPE-8011454*); 12 MONTHS $51,172

BAILEY, JAMES E; *STUDIES OF FORCED DYNAMIC BEHAVIOR OF CATALYTIC REACTORS* (CPE-8019606); 12 MONTHS $51,039

SRI INTERNATIONAL

LAINE, RICHARD M; *HOMOGENEOUS CATALYSIS WITH CARBON MONOXIDE AND WATER* (CPE-7925069 A01); 12 MONTHS $53,841

WISE, HENRY; *THERMODYNAMIC PROPERTIES AND CHEMICAL REACTIVITIES OF SURFACE CARBON SPECIES IN CATALYTIC HYDROCARBON SYNTHESIS* (CPE-8006402); 12 MONTHS $56,945

STANFORD UNIVERSITY

MADIX, ROBERT J; *THE EFFECT OF SURFACE COMPOSITION AND STRUCTURE ON ELEMENTARY CHEMICAL REACTIONS ON METALLIC SUBSTRATES* (CPE-7711904 A04); 12 MONTHS $50,000

HANSON, RONALD K, AND KRUGER, CHARLES H; *DEVELOPMENT OF TUNABLE LASER ABSORPTION SPECTROSCOPY AND APPLICATION TO HIGH TEMPERATURE STUDIES OF NO-NH3 KINETICS* (CPE-7910150 A01); 12 MONTHS $70,075

BOUDART, MICHEL; *CATALYSIS BY CLUSTER OF GOLD AND SMALL PARTICLES OF IRON* (CPE-7909141 A01); 12 MONTHS $91,512

MASON, DAVID M; *SOLAR ENERGY STORAGE SYSTEM USING THE PHOTOLYSIS OF NITROSYL CHLORIDE* (CPE-7919150*); 24 MONTHS $90,925

PARRS, GEORGE A; *URANIUM TRANSPORT MODELLING* (CPE-7909015*); 24 MONTHS $69,648

MADIX, ROBERT J; *ELECTRON ENERGY LOSS VIBRATIONAL SPECTROSCOPY OF ADSORBATES AND INTERMEDIATES IN CATALYTIC REACTIONS* (CPE-7909156); 12 MONTHS $45,102

MITCHNER, MORTON, AND SELF, SIDNEY A; *CHARGED PARTICLE TRANSPORT BY ELECTRIC FORCES IN TURBULENT GAS FLOWS* (CPE-7908090); 12 MONTHS $58,490

SELF, SIDNEY A; *DIAGNOSTIC TECHNIQUES FOR MAGNETOHYDRODYNAMIC AND RELATED PLASMA FLOWS* (CPE-8006072); 12 MONTHS $74,396

UNIVERSITY OF CALIFORNIA, BERKELEY

PRAUSNITZ, JOHN M; *THERMODYNAMIC PROPERTIES OF MIXTURES IN PROCESS DESIGN FOR ENERGY AND CHEMICAL PRODUCTS. EFFICIENT UTILIZATION OF HEAVY FOSSIL RESOURCES* (CPE-7708911 A03); 12 MONTHS $49,806

FUERSTENAU, DOUGLAS W; *INTERFACIAL PHENOMENA IN MINERAL SEPARATION PROCESSES* (CPE-7706971 A05); 12 MONTHS $73,221

WILLIAMS, MICHAEL C; *THE INTERNAL VISCOSITY MODEL* (CPE-7910854 A01); 12 MONTHS $89,794

SELL, ALEXIS T; *STUDIES OF CATALYTIC MECHANISMS THROUGH THE USE OF INFRARED SPECTROSCOPY AND KINETIC ANALYSIS* (CPE-7906852 A01); 12 MONTHS $90,000

PETERSEN, EUGENE E; *REACTIVATION OF PLATINUM-RHENIUM REFORMING CATALYSTS DURING THE DEHYDROGENATION OF METHYLCYCLOHEXANE AND DEHYDROCYCLIZATION OF N-HEPTANE* (CPE-7910410 A01); 12 MONTHS $46,973

BLANCH, HARVEY W; *BUBBLE SIZE AND FUNGAL MORPHOLOGY IN FERMENTATION SYSTEMS* (CPE-7910094*); 12 MONTHS $47,134

NEUMANN, A R, AND HEIDE, DIETRICH W; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: PLASMA CHEMICAL SYSTEM FOR DRY PROCESSING* (CPE-7910870); 12 MONTHS $46,000

KING, C J; *FOOD-QUALITY FACTORS IN SPRAY DRYING* (CPE-8006756); 12 MONTHS $54,021

UNIVERSITY OF CALIFORNIA, LOS ANGELES

POMRANING, G C; *SINGULAR EIGENFUNCTION METHODS IN NON-LAYERED SYSTEMS* (CPE-7716502 A02); 12 MONTHS $81,397

FORRESTER, A T; *RECOVERY OF ENERGY FROM ION BEAMS* (CPE-7819042 A01); 12 MONTHS $60,800

UNIVERSITY OF CALIFORNIA, SAN DIEGO

MIDDLEMAN, STANLEY; *INVESTIGATIONS OF ELONGATIONAL RHEOLOGY OF POLYMERIC FLUIDS* (CPE-7900714); 24 MONTHS $60,752

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

SANDALL, ORVILLE C; *SIMULTANEOUS HEAT AND MASS TRANSFER IN MULTICOMPONENT DISTILLATION IN CONTINUOUS CONTACT EQUIPMENT* (CPE-8003150); 24 MONTHS $54,339

UNIVERSITY OF SANTA CLARA

PEFLEY, RICHARD K; *SPECIAL FOREIGN CURRENCY AWARD (INCLUDING INDIAN CURRENCY AND U.S. DOLLARS) FOR RESEARCH ON COMBUSTION OF ALCOHOL AND BIOGAS, A CONTINUATION* (INT-7909029 A01*); 36 MONTHS $20,040

UNIVERSITY OF SOUTHERN CALIFORNIA

TSOTSIS, THEODORE T; *SPECIALIZED RESEARCH EQUIPMENT: AN EXPERIMENTAL FACILITY FOR THE STUDY OF SELF-GENERATED SUSTAINED OSCILLATIONS IN CATALYTIC SYSTEMS* (CPE-7910879); 12 MONTHS $40,000

CHANG, WENJI V, AND TSOTSIS, THEODORE T; *SPECIALIZED RESEARCH EQUIPMENT: USE OF ELLIPSOMETRY FOR THE STUDY OF FUNDAMENTAL PHENOMENA IN ADHESION AND CATALYSIS* (CPE-8015575); 12 MONTHS $38,300

COLORADO

COLORADO SCHOOL OF MINES

BALDWIN, ROBERT M; *SPECIALIZED RESEARCH EQUIPMENT GRANT: GAS CHROMATOGRAPH FOR RESEARCH IN COAL HYDROGENATION KINETICS* (CPE-7915764); 12 MONTHS $9,300

GRABOSKI, MICHAEL S; *SPECIALIZED RESEARCH EQUIPMENT: SURFACE AREA/CHEMISORPTION ANALYSER* (CPE-8014634); 12 MONTHS $12,000

COLORADO STATE UNIVERSITY

JONES, THOMAS B; *DIELECTRIC MODELS FOR ELECTROFLUIDIZED BEDS* (CPE-7930915); 24 MONTHS $91,344

LINDEN, JAMES C; *SPECIALIZED RESEARCH EQUIPMENT: REFRIGERATED CENTRIFUGE FOR BIOCHEMICAL ENGINEERING RESEARCH* (CPE-7916469); 12 MONTHS $7,799

BURNS, PATRICK J; *RESEARCH INITIATION - TRANSPORT PROPERTIES AT A POROUS MEDIUM-NEWTONIAN FLUID INTERFACE* (CPE-8006469); 24 MONTHS $99,814

UNIVERSITY OF COLORADO AT BOULDER

GAMOW, R; *MECHANICAL PROPERTIES OF THE LIVING CELL WALL* (CPE-7908151 A02*); 6 MONTHS $3,300

FALCONER, JOHN L; *SPECIALIZED RESEARCH EQUIPMENT: QUADRUPOLE MASS SPECTROMETER FOR HETEROGENEOUS CATALYSIS RESEARCH* (CPE-7916390); 12 MONTHS $14,959

CONNECTICUT

UNIVERSITY OF CONNECTICUT

BENNETT, CARROLL O; *PARTIAL OXIDATION OVER FINELY DIVIDED IRON MOLYBDENUM OXIDE STUDIED BY TRANSIENT AND INFRARED METHODS* (CPE-7901019 A01); 12 MONTHS $65,112

YALE UNIVERSITY

WEGENER, PETER P; *EXPERIMENTAL AND THEORETICAL STUDY OF HOMOGENEOUS NUCLEATION OF SIMPLE VAPORS* (CPE-7909010); 24 MONTHS $103,000

FENN, JOHN B, AND KRISHNAN, MAHADEVAN; *MOLECULAR BEAMS FROM FREE JET SOURCES* (CPE-7910042 A01); 12 MONTHS $74,971

KRISHNAN, MAHADEVAN, AND HERSHFIELD, JAY L; *ELECTROMAGNETIC ISOTOPE SEPARATION IN PLASMAS* (CPE-7916090); 12 MONTHS $62,134

KRISHNAN, MAHADEVAN, AND HERSHFIELD, JAY L; *ELECTROMAGNETIC ISOTOPE SEPARATION IN PLASMAS* (CPE-7916090 A01); 12 MONTHS $13,502

HENRICH, VICTOR E; *SPECIALIZED RESEARCH EQUIPMENT: DEDICATED COMPUTER FOR OPERATION OF SURFACE ANALYSIS SYSTEM* (CPE-7910910); 12 MONTHS $16,500

DELAWARE

UNIVERSITY OF DELAWARE

KATZER, JAMES R; *EVOLUTION OF THE STRUCTURAL PROPERTIES OF SUPPORTED METAL CATALYSTS DURING PREPARATION AND END USE (CPE-7709497 A02)*; 12 MONTHS $51,327

SCHRADER, GLENN L; *MIXED METAL OXIDE CATALYSTS FOR PRODUCING METHANOL AND HIGHER ALCOHOLS FROM SYNTHESIS GAS (CPE-7811377 A01)*; 12 MONTHS $65,053

SPIELMAN, LLOYD A; *FLOC BREAKAGE IN AGITATED LIQUID SUSPENSIONS (CPE-7825540 A01)*; 12 MONTHS $44,950

GATES, BRUCE C; *CATALYSIS BY METAL CLUSTERS ATTACHED TO SOLIDS (CPE-7826054 A01)*; 12 MONTHS $53,976

RUSSELL, THOMAS W; *DESIGN OF TWO PHASE GAS-LIQUID FERMENTORS (CPE-7913226*)*; 12 MONTHS $43,061

PAULAITIS, MICHAEL E; *REMOVAL OF ORGANOMETALLIC COMPOUNDS FROM ASPHALTIC RESIDUES USING SUPERCRITICAL SOLVENTS (CPE-8000276)*; 24 MONTHS $84,179

DISTRICT OF COLUMBIA

AMERICAN SOCIETY FOR ENGINEERING EDUCATION

BAUMANN, DWIGHT M; *A NATIONAL CONFERENCE FOR DEANS OF BUSINESS AND ENGINEERING SCHOOLS (ISP-8020870 A01*)*; 6 MONTHS $8,458

NATIONAL ACADEMY OF SCIENCES

PRINDLE, WILLIAM R; *STUDY OF COMMINUTION AND ENERGY CONSUMPTION (CPE-7910532 A02)*; 6 MONTHS $3,000

FLORIDA

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

ONODA, GEORGE Y; *THE SCIENCE OF EXTRUDING NON-PLASTIC PARTICULATES (CPE-7818077 A01)*; 12 MONTHS $27,000

O'CONNELL, JOHN P; *FURTHER APPLICATION OF STATISTICAL MECHANICS TO THERMODYNAMIC PROPERTIES OF LIQUID SOLUTIONS (CPE-8007395)*; 12 MONTHS $46,000

BEATTY, CHARLES L; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: AUTOMATED HIGH PRECISION, HIGH PRESSURE P-V-T APPARATUS (CPE-8015553)*; 12 MONTHS $50,000

UNIVERSITY OF FLORIDA

GORDON, RONALD J; *RHEOLOGICAL BEHAVIOR OF DILUTE POLYMER SOLUTIONS (CPE-7901666 A0[illegible]* MONTHS $105,344

WILHELM, H E; *HYDROD[illegible]MICS OF ROTATING PLASMAS WITH SECONDARY FLOWS (CPE-7915700[illegible]* 12 MONTHS $29,100

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

MYERSON, ALLAN S; *EFFECT OF IMPURITIES ON OCCLUSION FORMATION DURING CRYSTALLIZATION FROM SOLUTION (CPE-7926304)*; 24 MONTHS $65,020

SKELLAND, ANTHONY H; *FURTHER EXPERIMENTAL STUDY OF CHEMICAL PROCESSES OF LIQUID EXTRACTION (CPE-8019617* 12 MONTHS $21,130

WINNICK, JACK; *ELECTROCHEMICAL CONCENTRATION OF GASEOUS SULFUR OXIDES IN A MOLTEN SALT CELL (CPE-8020630)*; 7 MONTHS $45,000

IDAHO

UNIVERSITY OF IDAHO

THOMSON, WILLIAM J; *METHANATION REACTION PATHS AT HIGH TEMPERATURES (CPE-7919253)*; 24 MONTHS $74,829

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

WASAN, DARSH T; *DYNAMIC EFFECTS OF SURFACTANTS ON INTERFACIAL VISCOELASTIC PROPERTIES (CPE-7720164 A02)*; 12 MONTHS $48,375

MALKUS, DAVID S, AND BERNSTEIN, BARRY; *STEADY FLOW OF MEMORY FLUIDS WITH FINITE ELEMENTS (MCS-7903542 A01*)*; 12 MONTHS $5,766

GIDASPOW, D, AND WASAN, DARSH T; *SEPARATION OF PARTICLES FROM NON-AQUEOUS MEDIA BASED ON ELECTROKINETIC PHENOMENA (CPE-7919159)*; 12 MONTHS $61,000

SELMAN, JAN R, AND WASAN, DARSH T; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: FREQUENCY RESPONSE ANALYZER/PROCESSOR FOR DIAGNOSTIC STUDIES OF ELECTRODES AND POROUS FLOW BEDS (CPE-7923967)*; 12 MONTHS $22,813

GIDASPOW, D, AND WASAN, DARSH T; *SPECIALIZED RESEARCH EQUIPMENT: GAMMA RAY DENSITOMETER (CPE 8015554)*; 12 MONTHS $16,000

NORTHWESTERN UNIVERSITY

SLATTERY, JOHN C; *EFFECT OF THE RATE OF ADSORPTION AT OIL-WATER INTERFACE UPON DISPLACEMENT OF RESIDUAL OIL (CPE-7909971)*; 24 MONTHS $99,782

BUTT, JOHN B; *KINETIC MODELING AND STRUCTURE SENSITIVITY OF CATALYST DEACTIVATION (CPE-7915234)*; 24 MONTHS $89,947

THODOS, GEORGE; *VAPOR-LIQUID EQUILIBRIUM MEASUREMENTS: POLAR-NONPOLAR BINARY AND TERNARY MIXTURES AT ELEVATED PRESSURES AND TEMPERATURES (CPE-7920434)*; 12 MONTHS $55,390

LEWIS, ELMER E; *MULTIDIMENSIONAL NEUTRON TRANSPORT SOLUTIONS USING THE FINITE ELEMENT METHOD (CPE-7923227)*; 24 MONTHS $105,316

STEIN, GILBERT D; *SPECIALIZED RESEARCH EQUIPMENT: TUNABLE LASER FOR STUDIES OF SMALL ATOMIC AND MOLECULAR CLUSTERS (CPE-7923941)*; 12 MONTHS $19,960

GRAESSLEY, WILLIAM W; *FLOW PROPERTIES OF POLYMERS (CPE-8000030)*; 12 MONTHS $72,072

FERNANDEZ-PELLO, A CARLOS, AND LAW, CHUNG K; *SPECIALIZED RESEARCH EQUIPMENT: ACQUISITION OF LASER DOPPLER VELOCIMETRY SYSTEM FOR COMBUSTION RESEARCH (CPE-8015568)*; 12 MONTHS $49,800

UNIVERSITY OF ILLINOIS AT URBANA

HANRATTY, THOMAS J; *MASS TRANSFER AND TWO-PHASE FLOW (CPE-7920980)*; 12 MONTHS $68,000

MASEL, RICHARD I; *SPECIALIZED RESEARCH EQUIPMENT: PHOTOEMISSION SPECTROMETER TO MEASURE RATES OF ELEMENTARY CHEMICAL REACTIONS ON CATALYSTS (CPE-7923249)*; 12 MONTHS $27,000

MILEY, GEORGE H, *NUCLEAR-PUMPED LASERS (CPE-8000007)*; 12 MONTHS $51,077

EDEN, J G; *ULTRAVIOLET PHOTODISSOCIATION OF RARE GAS IONS (CPE-8006378*)*; 24 MONTHS $36,000

CHAO, BEI T, AND SOO, SHAO L; *MODELING ELECTROSTATIC EFFECTS IN DILUTE SOLID-GAS SUSPENSION SYSTEMS (CPE-8011270)*; 12 MONTHS $56,620

INDIANA

PURDUE UNIVERSITY

KRUTZ, GARY W, AND SCHOENHALS, ROBERT J; *DETERMINATION OF WELDING ARC DISTRIBUTION AND ENERGY TRANSFER EFFICIENCIES (CPE-7826293 A01)*; 12 MONTHS $42,296

CHAO, KWANG-CHU, AND GREENKORN, ROBERT A; *THERMODYNAMICS OF FLUID SYSTEMS (CPE-7912453 A01)*; 12 MONTHS $49,867

LIM, HENRY C; *GROWTH KINETICS OF MICROORGANISMS ON SUBSTRATES FROM PARTIAL OXIDATION OF METHANE FOR SINGLE CELL PROTEIN PRODUCTION (CPE-7918261)*; 12 MONTHS $61,427

LIM, HENRY C; *OPERATION OF FED BATCH AND CONTINUOUS CULTURES FOR OPTIMAL PRODUCT FORMATION USING COMPUTER COUPLED FERMENTORS (CPE-7918902)*; 12 MONTHS $53,631

DELGASS, W N; *KINETICS AND CATALYTIC CHEMISTRY OF HYDROCARBON SYNTHESIS OVER IRON-CONTAINING CATALYSTS (CPE-7920847)*; 24 MONTHS $110,342

RAMKRISHNA, DORAISWAM, AND NARSIMHAN, GANESAN; *ANALYSIS OF RATE PROCESSES IN LIQUID-LIQUID DISPERSIONS (CPE-8001749)*; 12 MONTHS $36,122

FRANSES, ELIAS I; *RESEARCH INITIATION - MICROSTRUCTURE AND STABILITY OF DISPERSE SYSTEMS (CPE-8006677)*; 24 MONTHS $39,989

UNIVERSITY OF NOTRE DAME

STRIEDER, WILLIAM; *TRANSPORT IN HETEROGENEOUS AND POROUS MEDIA-THERMAL CONDUCTION, SURFACE DIFFUSION, AND GASEOUS DIFFUSION WITHIN FINE PORES (CPE-7919790)*; 12 MONTHS $52,605

SCHMITZ, ROGER A; *OSCILLATORY CATALYTIC REATIONS AND THEIR KINETIC MODELS (CPE-8019563)*; 12 MONTHS $44,100

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

LARSON, MAURICE A; *CRYSTALLIZATION KINETICS IN WATER TREATMENT PROCESSES (CPE-7922038)*; 12 MONTHS $37,777

DANOFSKY, RICHARD A; *RESPONSE OF THE IN-CORE NEUTRON DETECTORS TO MOVING CORE COMPONENTS (CPE-7923137)*; 24 MONTHS $121,389

UNIVERSITY OF IOWA

HWANG, SUN TAK; *GAS SEPARATION BY A CONTINUOUS MEMBRANE COLUMN (CPE-8016802)*; 24 MONTHS $101,780

KANSAS

KANSAS STATE UNIVERSITY

ERICKSON, LARRY E; *APPLICATIONS OF MASS ENERGY BALANCE REGULARITIES IN BIOCHEMICAL ENGINEERING (CPE-7918202)*; 24 MONTHS $65,989

KENTUCKY

UNIVERSITY OF KENTUCKY

ALTENKIRCH, ROBERT A, AND PECK, ROBERT E; *BEHAVIOR OF FUEL NITROGEN DURING PULVERIZED-COAL COMBUSTION (CPE-7926312)*; 24 MONTHS $98,743

BRADLEY, EUGENE B; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: POLYDRIVE SYSTEM FOR RAMAN SPECTROMETER (CPE-8015071)*; 12 MONTHS $20,000

MARYLAND

JOHNS HOPKINS UNIVERSITY

DONOHUE, MARK D; *CRYSTAL FORMATION IN SURFACTANT SOLUTIONS (CPE-7920733*)*; 24 MONTHS $26,678

UNIVERSITY OF MARYLAND, COLLEGE PARK

GASNER, LARRY L; *PURCHASE OF AUTOMATIC SULPHUR ANALYSIS EQUIPMENT (CPE-7911400 A01)*; $1,408

MCILRATH, THOMAS J; *LYMAN-ALPHA SOURCES FOR PLASMA STUDIES (CPE-7918387)*; 24 MONTHS $108,095

GOMEZPLATA, A; *SPECIALIZED RESEARCH EQUIPMENT: LASER ANEMOMETRY ENGINEERING RESEARCH FACILTIY (CPE-8018397)*; 12 MONTHS $43,000

MASSACHUSETTS

BOSTON COLLEGE

DAVIDOVITS, PAUL; *EXOERGIC GAS PHASE REACTIONS OF BORON AND CARBON ATOMS (CPE-8007185)*; 12 MONTHS $52,967

HARVARD UNIVERSITY

EMMONS, HOWARD W, AND DE RIS, JOHN; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DIFFUSION FLAME ENERGY TRANSFERS (CPE-8012985*)*; 12 MONTHS $28,590

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

GATOS, HARRY C, AND LAGOWSKI, JACEK; *STUDIES OF ADSORPTION AND CHARGE TRANSFER ON SEMICONDUCTOR SURFACES (CPE-7717884 A02)*; 12 MONTHS $38,331

PROBSTEIN, RONALD F; *A NEW MODEL OF LAMELLA SETTLERS (CPE-7808654 A01)*; 5 MONTHS $16,500

SATTERFIELD, CHARLES N, AND MADON, ROSTAM J; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: EFFECT OF BULK LIQUID VS. GAS PHASE ON SELECTIVITY IN THE FISCHER-TROPSCH SYNTHESIS (CPE-7914173*)*; 12 MONTHS $27,346

GRODZINSKY, ALAN J; *ELECTRIC FIELD CONTROL OF PERMEABILITY AND INTERACTIONS OF CONNECTIVE TISSUE POLYELECTROLYTES (CPE-7918781)*; 12 MONTHS $53,726

POPE, STEPHEN B; *MONTE CARLO CALCULATIONS OF TURBULENT FLAMES (CPE-8000026)*; 12 MONTHS $41,796

PROBSTEIN, RONALD F; *A NEW MODEL OF LAMELLA SETTLERS (CPE-8008068)*; 12 MONTHS $62,083

PHYSICAL SCIENCES INC

CALEDONIA, G E, AND WILKERSON, THOMAS D; *INDUSTRY - UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: COLLISION - INDUCED EMISSION AND LIGHT SCATTERING IN HIGH PRESSURE, HIGH TEMPERATURE GASES (CPE-8000928*)*; 12 MONTHS $14,942

TUFTS UNIVERSITY

GLAZMAN, YULI, AND BOTSARIS, GREGORY D; *STABILIZATION MECHANISM OF HYDROPHOBIC COLLOIDAL DISPERSIONS BY NONIONIC SURFACTANTS (CPE-7923206)*; 24 MONTHS $74,607

UNIVERSITY OF MASSACHUSETTS, AMHERST

LAURENCE, ROBERT L; *MEASUREMENT OF DIFFUSION AND THERMODYNAMIC INTERACTIONS IN POLYMERS AND POLYMER BLENDS USING CAPILLARY COLUMN INVERSE GAS CHROMATOGRAPHY (CPE-7904168 A01)*; 12 MONTHS $34,920

DOUGLAS, JAMES M; *PROCESS DESIGN WITH CATALYST DEACTIVATION (CPE-7918041)*; 12 MONTHS $41,880

WORCESTER POLYTECHNIC INSTITUTE

MA, YI H; *EFFECT OF PORE STRUCTURE ON LIQUID DIFFUSION AND CATALYST DEACTIVATION (CPE-7911918 A01)*; 12 MONTHS $39,388

SACCO, ALBERT; *AN INVESTIGATION OF THE INITIATION AND GROWTH MECHANISMS OF THE FILAMENTOUS FORM OF COKE (CPE-7918173)*; 24 MONTHS $68,474

THOMPSON, ROBERT W; *POPULATION BALANCE ANALYSIS OF MOLECULAR SIEVE ZEOLITE A SYNTHESIS (CPE-8013743)*; 24 MONTHS $82,394

MICHIGAN

MICHIGAN STATE UNIVERSITY

PEARSON, A M; *SURFACE RESPONSE ANALYSIS FOR EVALUATION AND CHARACTERIZATION OF MEAT FLAVOR (CPE-7910727)*; 24 MONTHS $72,008

PETTY, CHARLES A, AND WOOD, PHILIP E; *THE EFFECT OF TURBULENT MIXING ON MASS TRANSFER NEAR A PLANAR INTERFACE FOR LARGE SCHMIDT NUMBERS (CPE-7915256)*; 24 MONTHS $75,791

PETTY, CHARLES A, AND JAYARAMAN, KRISHNAMU; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: LASER DOPPLER VELOCITY MEASUREMENTS IN VISCOELASTIC FLUIDS (CPE-8015581)*; 12 MONTHS $14,916

UNIVERSITY OF MICHIGAN

SCHULTZ, JEROME S; *PHOTODIFFUSION MEMBRANES (CPE-7813316 A01)*; 12 MONTHS $40,426

FOGLER, H SCOTT; *WATER SENSITIVITY OF SANDSTONE (CPE-7906647 A01)*; 12 MONTHS $59,748

DONAHUE, FRANCIS M; *KINETICS OF ELECTROLESS COPPER PLATING (CPE-7909745 A01)*; 12 MONTHS $47,153

FOGLER, H SCOTT; *KINETICS OF CATALYZED DISSOLUTION OF SILICATE MINERALS (CPE-7915173*)*; 24 MONTHS $94,000

GULARI, ERDOGAN; *INVESTIGATION OF COLLOIDAL AND INTERFACIAL PHENOMENA IN TERTIARY OIL RECOVERY (CPE-7916518)*; 24 MONTHS $73,879

POWERS, JOHN E; *ACCURATE CALORIMETRIC DETERMINATIONS WITH ETHYLENE IN THE CRITICAL REGION TO EXTEND TESTS OF THE SCALED EQUATION OF STATE (CPE-7920162)*; 24 MONTHS $79,815

GULARI, ERDOGAN, AND SCHWANK, JOHANNES; *STUDIES IN HETEROGENEOUS CATALYSIS (CPE-7920818)*; 12 MONTHS $59,538

WANG, HENRY Y; *RESEARCH INITITATION - STUDIES OF CONTINUOUS ALCOHOL SEPARATION DURING FERMENTATION (CPE-8006702)*; 24 MONTHS $39,998

GULARI, ERDOGAN, FOGLER, H SCOTT, SCHWANK, JOHANNES, SCHULTZ, JEROME S, AND BARENBERG, SUMNER; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: PURCHASE OF A FOURIER-TRANSFORM INFRARED SPECTROMETER (CPE-8010800)*; 12 MONTHS $45,000

WANG, HENRY Y, SCHULTZ, JEROME S, AND SAVAGEAU, MICHAEL A; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: STUDIES AND APPLICATION OF IN-SITU EXTRACTION ON FERMENTATION PROCESSES (CPE-8010868*)*; 12 MONTHS $19,500

WAYNE STATE UNIVERSITY

ROTHE, ERHARD W, AND RECK, GENE P; *LASER-DRIVEN AND LASER-ANALYZED ALKALI METAL EXCHANGE REACTIONS (CPE-7826024 A01)*; 12 MONTHS $67,000

GULARI, ESIN, AND FISHER, EDWARD R; *SPECIALIZED RESEARCH EQUIPMENT: PURCHASE OF LASER LIGHT SCATTERING SPECTROMETER (CPE-7923812)*; 12 MONTHS $26,200

MINNESOTA

UNIVERSITY OF MINNESOTA-INSTITUTE OF TECHNOLOGY

SCHMIDT, LANNY D; *CHARACTERIZATION OF CATALYST SURFACES (CPE-7915178)*; 12 MONTHS $53,235

UNIVERSITY OF MINNESOTA

FREDRICKSON, ARNOLD G; *KINETICS OF CONCENTRATION OF MICROBIOLOGICAL SUSPENSIONS BY PROTOZOAN FEEDING (CPE-7721632 A02)*; 12 MONTHS $65,388

PFENDER, EMIL, AND TOTH, LOUIS E; *SYNTHESIS OF REFRACTORY CARBIDES AND NITRIDES IN THERMAL PLASMAS (CPE-7810047 A01)*; 12 MONTHS $101,537

OSKAM, HENDRIK J; *PROPERTIES OF GASEOUS PLASMAS BY MASS SPECTROMETER AND LIGHT SPECTROMETER TECHNIQUES (CPE-7825933 A01)*; 12 MONTHS $55,320

CHANIN, L M; *NON-UNIFORMITY INVESTIGATIONS IN GLOW DISCHARGES (CPE-7903775 A01)*; 12 MONTHS $61,710

TIRRELL, MATTHEW V; *COPOLYMERIZATION REACTION ENGINEERING AT HIGH CONVERSION: EFFECTS OF IMPOSED AND NATURAL TEMPORAL VARIATIONS IN REACTION CONDITIONS (CPE-7925356)*; 12 MONTHS $56,635

NEUMAN, RONALD D, AND HARD, SVERKER; *SPECIALIZED RESEARCH EQUIPMENT: ADVANCED LASER HETERODYNE LIGHT-SCATTERING APPARATUS (CPE-7925797)*; 12 MONTHS $12,590

PFENDER, EMIL; *STUDIES OF THE ELECTRODE REGIONS OF HIGH INTENSITY ARCS (CPE-8008950)*; 12 MONTHS $112,416

MACOSKO, C W; *SPECIALIZED RESEARCH EQUIPMENT: RHEOLOGICAL FACILITY (CPE-8012987)*; 12 MONTHS $69,412

OSKAM, HENDRIK J, AND PFENDER, EMIL; *WORKSHOP ON PLASMA CHEMISTRY AND ARC TECHNOLOGY; AUGUST 25-27, 1980; MINNEAPOLIS, MINNESOTA (CPE-8016782)*; 6 MONTHS $18,800

CUSSLER, EDWARD L, AND KELLER, KENNETH H; *VERY FAST AND VERY SLOW DIFFUSION (CPE-8017376)*; 24 MONTHS $105,362

UNIVERSITY OF MINNESOTA AT SAINT PAUL

MACOSKO, C W; *LUBRICATED STAGNATION FLOW FOR STUDYING STEADY EXTENSION (CME-7907045*)*; 24 MONTHS $28,360

EVANS, D FENNELL, AND KELLER, KENNETH H; *UNDERSTANDING THE DIFFUSION OF SMALL SOLUTES (CPE-8014567)*; 12 MONTHS $48,947

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

LOYALKA, S K; *KNUDSEN DRAG FORCES IN MECHANICS OF AEROSOLS (CPE-7920809)*; 24 MONTHS $71,698

LOYALKA, S K, STORVICK, TRUMAN S, MEYER, WALTER, AND WARDER, RICHARD C; *SPECIALIZED RESEARCH EQUIPMENT: MECHANICS OF AEROSOLS (CPE-7925755)*; 12 MONTHS $17,475

PRELAS, MARK A; *RESEARCH INITIATION - STEADY STATE NUCLEAR PUMPED LASER RESEARCH (CPE-8006668)*; 24 MONTHS $40,000

UNIVERSITY OF MISSOURI, ROLLA

KASSNER, JAMES L; *EXPERIMENTAL AND THEORETICAL STUDIES OF NUCLEATION PHENOMENA (ATM-7919480*)*; 12 MONTHS $10,000

REED, X B; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: LASER ANEMOMETER AND LASER-EXCITED PHOTOCHROMIC SYSTEMS (CME-7925783*)*; 12 MONTHS $20,000

LIAPIS, A I; *THE MODELING AND ANALYSIS OF MULTICOMPONENT ADIABATIC ASORPTION IN FIXED-BEDS (CPE-8005849)*; 24 MONTHS $34,709

WASHINGTON UNIVERSITY

JOSEPH, BABU, AND MOTARD, RODOLPHE L; *SIMPLE MODELS FOR SEPARATION PROCESSES USING POLYNOMIAL APPROXIMATION (CPE-7927113)*; 24 MONTHS $47,424

SMITH, BUFORD D; *THE THERMODYNAMICS OF LIQUID MIXTURES (CPE-8000524)*; 24 MONTHS $148,468

POWELL, ROBERT L; *RESEARCH INITIATION - FLOW BEHAVIOR OF FILLED POLYMERIC FLUIDS (CPE-8006704)*; 24 MONTHS $29,980

NEW HAMPSHIRE

DARTMOUTH COLLEGE

GRETHLEIN, HANS E. AND CONVERSE, ALVIN O; *RELATIONSHIP BETWEEN CELLULOSE SUBSTRATE STRUCTURE AND KINETICS OF ENZYMATIC HYDROLYSIS (CPE-7921074)*; 12 MONTHS $35,218

NEW JERSEY

ELECTROCHEMICAL SOCIETY

WEIL, ROLF; *ELECTROCRYSTALLIZATION SYMPOSIUM - HOLLYWOOD, FLORIDA OCTOBER 5-8, 1980 (CPE-8007182*)*; 6 MONTHS $4,000

NEW JERSEY INSTITUTE OF TECHNOLOGY

CHEN, HUNG T; *SEPARATION AND PURIFICATION OF PROTEINS VIA CONTINUOUS PH-PARAMETRIC PUMPING (CPE-7910540 A01)*; 12 MONTHS $42,592

CHEN, HUNG T; *A FUNDAMENTAL STUDY OF PHOTOPOLYMERIZATION IN A CONTINUOUS STIRRED TANK REACTOR (CPE-7915128)*; 24 MONTHS $83,068

PRINCETON UNIVERSITY

SIRIGNANO, WILLIAM A, AND DRYER, FREDERICK L; *VAPORIZATION AND COMBUSTION OF MULTICOMPONENT FUEL DROPLETS (CPE-7812564 A01)*; 6 MONTHS $21,927

OLLIS, DAVID F, AND PRUD'HOMME, ROBERT K; *CONTINUOUS FERMENTATION FOR MICROBIAL EXTRACELLULAR POLYSACCHARIDES (CPE-7910306 A01)*; 12 MONTHS $61,150

AXTMANN, ROBERT C, AND SAVILLE, DUDLEY A; *FUNDAMENTAL STUDIES OF SILICA POLYMERIZATION AND DEPOSITION (CPE-7915160 A01*)*; 12 MONTHS $57,462

BRACCO, FREDIANO V; *COMBUSTION IN INTERNAL COMBUSTION ENGINES. EXPERIMENTAL ASSESSMENT OF TWO-DIMENSIONAL, UNSTEADY MODELS FOR UNIFORM CHARGES (CPE-8003483)*; 12 MONTHS $59,724

NEW YORK

CITY COLLEGE

JIJI, LATIF M, AND WEINBAUM, SHELDON S; *AN AIR-VAPOR-DROPLET LOCAL INTERACTIONS MODEL FOR SPRAY UNITS AND SPRAY SYSTEMS (CPE-7820709 A01*)*; 12 MONTHS $50,005

WEINBAUM, SHELDON S, AND PFEFFER, ROBERT; *TRANSPORT OF MACROMOLECULES ACROSS ARTERIAL WALL AND LOW REYNOLDS NUMBER FLOW IN MULTIPARTICLE SYSTEMS (CPE-7822101 A01*)*; 12 MONTHS $88,215

ISAACS, LESLIE L; *THERMODYNAMIC FUNCTIONS OF COAL CHARS (CPE-7915231)*; 12 MONTHS $53,105

ALFANO, ROBERT R; *ENERGY TRANSFER MECHANISMS STUDY WITH ULTRAFAST LASER TECHNIQUES (CPE-7920192)*; 24 MONTHS $89,990

CLARKSON COLLEGE OF TECHNOLOGY

CHIN, DER TAU; *CORROSION BY ALTERNATING CURRENT (CPE-7725153 A02)*; 12 MONTHS $36,344

YOUNGQUIST, GORDON R; *SECONDARY NUCLEATION DUE TO FLUID SHEAR (CPE-7910021 A01)*; 12 MONTHS $29,416

MC CLUSKEY, RICHARD J; *RESEARCH INITIATION - PYROLYSIS OF NEWSPRINT (CPE-8006672)*; 24 MONTHS $40,000

COLUMBIA UNIVERSITY

SOMASUNDARAN, PONISSERI; *ADSORPTION FROM FLOODING SOLUTIONS IN POROUS MEDIA - A STUDY OF INTERACTIONS OF SURFACTANTS AND POLYMERS WITH RESERVOIR MINERALS (CPE-7811776 A02)*; 12 MONTHS $33,946

CORNELL UNIVERSITY

SHULER, MICHAEL L; *ENHANCEMENT OF PRODUCT FORMATION FROM PLANT CELL SUSPENSION CULTURES (CPE-7717855 A01)*; 5 MONTHS $9,170

GUBBINS, KEITH E, AND STREETT, WILLIAM B; *PROPERTIES OF POLYATOMIC LIQUIDS AND THEIR MIXTURES FROM COMPUTER SIMULATION AND THEORY (CPE-7909168 A01)*; 12 MONTHS $57,458

SHULER, MICHAEL L; *MATHEMATICAL MODELS FOR PRODUCT FORMATION FROM MICROBIAL SYSTEMS (CPE-7921259)*; 12 MONTHS $77,341

GUBBINS, KEITH E; *SPECIALIZED RESEARCH EQUIPMENT: COMPUTING FACILITY FOR RESEARCH IN CHEMICAL ENGINEERING (CPE-7923268)*; 12 MONTHS $24,435

BAUER, SIMON H, AND JOHNSON, MARVIN L; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH: EXAMINATION OF (CPE-8000025*)*; 36 MONTHS $24,094

BARTSCH, JAMES A; *SPECIALIZED RESEARCH EQUIPMENT: PHYSICAL TESTING FACILITY FOR AGRICULTURAL PRODUCTS (CPE-8015535)*; 12 MONTHS $25,130

NEW YORK UNIVERSITY

LOW, MANFRED J; *STUDIES OF REACTIONS ON CARBON AND COAL SURFACES (CPE-7922100)*; 12 MONTHS $48,759

POLYTECHNIC INSTITUTE OF NEW YORK

HAN, CHANG D; *BUBBLE DYNAMICS IN STRUCTURAL FOAM PROCESSING (CPE-7910171)*; 12 MONTHS $40,582

RENSSELAER POLYTECHNIC INSTITUTE

VAN-NESS, HENDRICK C, AND ABBOTT, MICHAEL M; *THERMODYNAMICS OF TERNARY LIQUID MIXTURES (CPE-7810048 A01)*; 24 MONTHS $83,382

VAN-NESS, HENDRICK C, AND ABBOTT, MICHAEL M; *THERMODYNAMICS OF TERNARY LIQUID MIXTURES (CPE-7810048 A02)*; $2,154

BUNGAY, HENRY R; *ENGINEERING STUDIES WITH A DISSOLVED OXYGEN MICROPROBE (CPE-7920121)*; 12 MONTHS $49,547

CHUNG, CHAN I; *DEVELOPMENT OF AN ANALYTICAL MELTING MODEL FOR POLYMER EXTRUSION (CPE-8002023)*; 12 MONTHS $45,562

RAJAGOPALAN, RAJ; *SPECIALIZED RESEARCH EQUIPMENT: DIFFERENTIAL LIGHT SCATTERING PHOTOMETER (CPE-8015565)*; 12 MONTHS $16,000

ALTWICKER, ELMAR R; *SPECIALIZED RESEARCH EQUIPMENT: DROPLET GENERATOR AND MEASUREMENT INSTRUMENTATION (CPE-8015566)*; 12 MONTHS $6,290

BELFORT, GEORGES; *SPECIALIZED RESEARCH EQUIPMENT: HIGH PERFORMANCE LIQUID CHROMATOGRAPHY SYSTEM (CPE-8015577)*; 12 MONTHS $12,000

STATE UNIVERSITY AT BUFFALO

ULBRECHT, JAROMIR J; *BUBBLE FORMATION IN VISCOUS AND RHEOLOGICALLY COMPLEX LIQUIDS (CPE-7916866)*; 24 MONTHS $114,697

GOOD, ROBERT J; *CONTACT ANGLES, HETEROGENEITY AND ROUGHNESS OF SURFACES. IN THE ATTACHMENT OF BUBBLES TO MINERAL PARTICLES (CPE-7918245*)*; 24 MONTHS $71,796

WELLER, SOL W; *SINTERING OF SHELL MOLYBDENA-ALUMINA CATALYSTS (CPE-7919420)*; 24 MONTHS $63,588

RUCKENSTEIN, ELI; *SURFACTANT AGGREGATION IN AQUEOUS AND NON-AQUEOUS MEDIA (CPE-7920303)*; 24 MONTHS $65,000

RUCKENSTEIN, ELI; *SOLUBILIZATION AND MICROEMULSIONS (CPE-7920831)*; 24 MONTHS $124,175

ULBRECHT, JAROMIR J; *SPECIALIZED ENGINEERING EQUIPMENT: RHEOMETRICS MECHANICAL SPECTROMETER (CPE-7925816*)*; 12 MONTHS $58,646

NANCOLLAS, GEORGE H, AND BARONE, JOSEPH P; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: CRYSTALLIZATION AND DISSOLUTION OF FLUORIDE AND PHOSPHATE SALTS (CPE-8005345*)*; 12 MONTHS $15,977

BENENSON, DAVID M, AND MALONE, DENNIS P; *DIAGNOSTICS OF TURBULENT AND LAMINAR CO-AXIAL PLASMAS IN SUPERSONIC AND SUBSONIC FLOWS, BEFORE AND AFTER CURRENT ZERO (CPE-8007187)*; 12 MONTHS $109,999

BENENSON, DAVID M, AND FRIND, GERHARD; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: INVESTIGATION OF UPSTREAM NOZZLE EFFECTS ON ARC INTERRUPTION SPEED (CPE-8008101*)*; 12 MONTHS $35,209

YANG, RALPH T; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: THERMOGRAVIMETRY- DIFFERENTIAL SCANNING CALORIMETRYEVOLVED GAS ANALYSIS- MASS SPECTROMETRY APPARATUS (CPE-8012357)*; 12 MONTHS $67,245

ULBRECHT, JAROMIR J; *SPECIALIZED RESEARCH EQUIPMENT: IMAGE ANALYZING SYSTEM (CPE-8012969*)*; 12 MONTHS $21,561

STATE UNIVERSITY AT STONY BROOK

STELL, GEORGE; *STATISTICAL MECHANICS OF THE LIQUID STATE (CHE-7900838 A01*)*; 12 MONTHS $27,500

CHEVRAY, RENE; *DATA ACQUISITION SYSTEM FOR RESEARCH ON TURBULENT REACTING FLOWS (CPE-8000934)*; 12 MONTHS $30,452

SYRACUSE UNIVERSITY

TIEN, CHI, *KINETICS OF DEEP BED FILTRATION (CPE-7905962 A01)*; 12 MONTHS $53,496

TIEN, CHI; *TREATMENT OF LIQUID WASTE IN ACTIVATED CARBON COLUMNS (CPE-7908893 A01)*; 12 MONTHS $60,114

BRUMBERGER, HARRY, AND GOODISMAN, JERRY; *NEW X-RAY METHODS FOR HETEROGENEOUS MULTIPHASE CATALYSTS (CPE-7913779*)*; 24 MONTHS $70,189

ATKINSON, GEORGE H; *SPECIALIZED RESEARCH EQUIPMENT: TIME-RESOLVED LASER DETECTION OF RADICALS AND REACTIVE INTERMEDIATES (CPE-7926474)*; 12 MONTHS $13,800

LETTERMAN, RAYMOND D, TIEN, CHI, LUNER, PHILIP, AND DRISCOLL, CHARLES; *SPECIALIZED RESEARCH EQUIPMENT: AUTOMATIC PARTICLE SIZING INSTRUMENT (CPE-8012424*)*; 12 MONTHS $5,000

UNITED ENGINEERING TRUSTEES INC

ZECCA, JOHN A, MAH, RICHARD S, AND SEIDER, WARREN D; *CONFERENCE ON 'FOUNDATIONS OF COMPUTER-AIDED PROCESS DESIGN' AT HENNIKER, NEW HAMPSHIRE, JUNE 15-20, 1980 (CPE-7914372)*; 12 MONTHS $12,000

MATSEN, JOHN M; *FLUIDIZATION 1980: THE THIRD ENGINEERING FOUNDATION CONFERENCE, HENNIKER, NEW HAMPSHIRE, AUGUST 3-8, 1980 (CPE-7921266)*; 12 MONTHS $10,000

CONSTANTINIDES , ALKIS; *SECOND INTERNATIONAL RESEARCH CONFERENCE ON BIOCHEMICAL ENGINEERING, NEW ENGLAND COLLEGE, JULY 13-18, 1980 (CPE-8012185)*; 6 MONTHS $13,800

ZECCA, JOHN A, MOREY, BOOKER W, AND SASTRY, KALANADH V; *ENGINEERING FOUNDATION CONFERENCE ON PARTICLE SCIENCE AND ENGINEERING IN PROCESS INDUSTRIES AT RINDGE, N H, JULY 6-11,1980 (CPE-8017457)*; 7 MONTHS $4,800

UNIVERSITY OF ROCHESTER

FEINBERG, MARTIN R; *A THEORY OF CHEMICAL REACTION NETWORKS: THE DYNAMICS OF REACTORS WITH COMPLEX CHEMISTRY (CPE-7809242 A01)*; 24 MONTHS $69,949

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

KOROS, WILLIAM J; *SORPTION OF PURE AND MIXED GASES AT HIGH PRESSURES IN GLASSY POLYMERS (CPE-7918300)*; 24 MONTHS $91,681

HOPFENBERG, HAROLD B; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: TRANSPORT AND RELAXATION IN GLASSY POLYMERS (CPE-7930740*)*; 12 MONTHS $24,999

FEDKIW, PETER; *RESEARCH INITIATION - APPLICATION OF A MODULATED CURRENT TO A FLOW-THROUGH POROUS ELECTRODE (CPE-8006705)*; 24 MONTHS $39,904

LIM, PHOOI K; *RESEARCH INITIATION - THE ROLE OF TRACE-METAL IONS AND SINGLET OXYGEN IN LIQUID-PHASE AUTOXIDATION REACTIONS (CPE-8007550)*; 24 MONTHS $40,000

OHIO

CASE WESTERN RESERVE UNIVERSITY

HOPFINGER, A J, AND BAER, ERIC; *MULTIPHASE MACROMOLECULAR ADSORPTION AND FILM GROWTH (CPE-7824007 A01)*; 12 MONTHS $44,873

CLEVELAND STATE UNIVERSITY

LEE, JAI MOON; *RESEARCH INITIATION - THE UNSTEADY-STATE LIQUID-LIQUID DISPERSIONS IN AGITATED VESSELS (CPE-8006666)*; 24 MONTHS $40,000

OHIO STATE UNIVERSITY

FAN, LIANG-SHI; *MECHANISM OF GAS-LIQUID-SOLID SEMIFLUIDIZATION (CPE-7911183)*; 18 MONTHS $69,144

FAN, LIANG-SHI; *FUNDAMENTAL CHARACTERISTICS OF A SEMIFLUIDIZED BED BIOREACTOR (CPE-7921068*)*; 24 MONTHS $61,104

OHIO UNIVERSITY

COLLIER, JOHN R; *FIXED BOUNDARY POLYMER EXTRUSION-ORIENTATION-CRYSTALLIZATION (CPE-7912376)*; 12 MONTHS $55,562

UNIVERSITY OF CINCINNATI-COLLEGE OF MEDICINE

WILLEKE, KLAUS; *SIZE CLASSIFICATION OF FINE PARTICLES BY OPPOSING JETS (CPE-7926451)*; 12 MONTHS $41,108

UNIVERSITY OF CINCINNATI

LEMLICH, ROBERT; *THE INTERSTITIAL DISTRIBUTION OF LIQUID IN FOAM (CPE-7727611 A01)*; 12 MONTHS $4,725

KHANG, SOON-JAI, AND ADAMS, FRANK S; *STUDY ON AGES-MIXING AND SPECIES-MIXING IN IN-LINE MOTIONLESS MIXERS (CPE-7916148*)*; 24 MONTHS $12,314

FRIED, JOEL R; *PURCHASE OF A UNIVERSAL MECHANICAL TESTING INSTRUMENT, INSTRON MODEL 1122 (CPE-7925819)*; 12 MONTHS $19,176

YOUNGSTOWN STATE UNIVERSITY

SINGH, DILIP K; *DIRECT MONTE CARLO SIMULATION OF MIXING OF SOLID PARTICLES IN A ROTATING CYLINDER (CPE-8006664)*; 24 MONTHS $38,518

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

BABB, STANLEY E; *VISCOSITY OF VERY DENSE GASSES (CPE-7918397)*; 24 MONTHS $89,826

UNIVERSITY OF TULSA

LUKS, KRAEMER D; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: PRESSURE AND TEMPERATURE CALIBRATION EQUIPMENT (CPE-8014650)*; 12 MONTHS $19,000

OREGON

BEND RESEARCH INC

LONSDALE, HAROLD K, AND BAKER, RICHARD W; *FUNDAMENTALS OF MEMBRANE PERMEATION (CPE-7926045)*; 24 MONTHS $122,474

OREGON STATE UNIVERSITY

BINNEY, STEPHEN E, SCHMITT, ROMAN A, AND LOVELAND, WALTER D; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: INSTRUMENTATION FOR NEUTRON ACTIVATION ANALYSIS (CPE-8016773)*; 12 MONTHS $32,900

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

WESTERBERG, ARTHUR W; *OPTIMIZATION OF VERY LARGE PROCESS SYSTEMS (CPE-7801809 A01)*; 12 MONTHS $57,725

GROSSMANN, IGNACIO E; *EFFICIENT DECOMPOSITION TECHNIQUES IN THE OPTIMUM DESIGN OF FLEXIBLE CHEMICAL PLANTS (CPE-7926398)*; 24 MONTHS $75,590

ANDERSON, JOHN L; *HINDERED DIFFUSION WITH CHEMICAL REACTION IN SMALL PORES (CPE-8005344*)*; 12 MONTHS $60,220

CARNEGIE-MELLON UNIVERSITY

JAIN, RAKESH K; *DYNAMICS OF NEOVASCULARIZATIO'' IN SOLID TUMORS (CPE-7825432 A01)*; 12 MONTHS $62,120

ANDERSON, JOHN L; *SPECIALIZED RESEARCH EQUIPMENT: GEL PERMEATION CHROMATOGRAPH WITH ON-LINE LOW ANGEL LASER LIGHT SCATTERING DETECTION (CPE-7924558)*; 12 MONTHS $41,800

COMBUSTION INSTITUTE

ROHRER, W; *SUPPORT OF PUBLICATION OF EIGHTEENTH SYMPOSIUM (INTERNATIONAL) ON COMBUSTION (CPE-7923680)*; 12 MONTHS $6,000

DREXEL UNIVERSITY

LEE, CHONG M; *STABILIZATION OF FAT AND WATER AND ITS EFFECT ON TEXTURAL CHARACTERISTICS OF COMMINUTED PROTEINACEOUS PRODUCTS (CPE-7911293)*; 24 MONTHS $86,400

COHEN, RICHARD S, AND CERNANSKY, NICHOLAS P; *SPECIALIZED RESEARCH EQUIPMENT: AUTOMATED LIQUID CHROMATOGRAPHIC ANALYSIS SYSTEM (CPE-8014055)*; 12 MONTHS $29,880

LEHIGH UNIVERSITY

LEVY, EDWARD K, AND CARAM, HUGO S; *ELUTRIATION FROM FLUIDIZED BEDS (CPE-7926053)*; 24 MONTHS $100,000

PENNSYLVANIA STATE UNIVERSITY

AUSTIN, LEONARD G, AND ROY, DELLA M; *A STUDY OF IMPROVEMENTS IN THE FINISH GRINDING OF CEMENT (CPE-7808655 A01)*; 12 MONTHS $40,000

DUDA, JOHN L, AND VRENTAS, J S; *MOLECULAR DIFFUSION IN CONCENTRATED POLYMER SOLUTIONS (CPE-7826275 A01)*; 12 MONTHS $55,507

VANNICE, M A, WALKER, PHILIP L, AND MULAY, LAXMAN N; *CARBON-SUPPORTED METALS AS METHANATION AND FISCHER-TROPSCH CATALYSTS (CPE-7915761)*; 12 MONTHS $61,416

RUNT, JAMES P; *RESEARCH INITIATION -- STUDIES ON THE NATURE OF THE CRYSTALLINITY AND COMPATIBILITY IN POLYMER BLENDS (CPE-8008060*)*; 24 MONTHS $25,000

UNIVERSITY OF PENNSYLVANIA

QUINN, JOHN A; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: MEMBRANE REACTORS (CPE-7813281 A01*)*; 12 MONTHS $15,727

PERLMUTTER, DANIEL D; *KINETICS OF REACTIONS IN POROUS SOLIDS: EVALUATION OF A RANDOM-PORE MODEL (CPE-8000291)*; 12 MONTHS $44,947

LAUFFENBURGER, DOUGLAS A; *RESEARCH INITIATION - MOTILITY AND CELL POPULATION DYNAMICS (CPE-8006701)*; 24 MONTHS $40,000

UNIVERSITY OF PITTSBURGH

KLINZING, GEORGE E; *ELECTROSTATICS IN DENSE PHASE PNEUMATIC TRANSPORT (CPE-7719761 A01)*; 24 MONTHS $56,748

KLINZING, GEORGE E, AND CHIANG, S H; *MASS AND HEAT TRANSFER IN PARTIALLY MISCIBLE LIQUID-LIQUID EXTRACTION SYSTEMS USING RADIOACTIVE EMISSION OF TRACERS AND IMAGE ANALYSIS TECHNOLOGY (CPE-7807127 A02)*; 24 MONTHS $55,223

LINDT, J T; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: REACTIVE PROCESSING OF POLYMERS IN A SINGLE-SCREW EXTRUDER (CPE-8007184*)*; 12 MONTHS $8,253

RHODE ISLAND

BROWN UNIVERSITY

KESTIN, JOSEPH; *MEASUREMENT AND THEORY OF TRANSPORT PROPERTIES OF GASES AND THEIR MULTICOMPONENT MIXTURES (CPE-7812380 A01)*; 12 MONTHS $54,995

DOBBINS, RICHARD A; *NUCLEATION DYNAMICS (CPE-7926764)*; 12 MONTHS $50,000

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER; *1980 GORDON RESEARCH CONFERENCE ON PLASMA CHEMISTRY, AUGUST 17-22, 1980, ANDOVER, NEW HAMPSHIRE (CPE-7924972)*; 12 MONTHS $5,500

CRUICKSHANK, ALEXANDER; *GORDON RESEARCH CONFERENCE ON STATISTICS IN CHEMISTRY AND CHEMICAL ENGINEERING, NEW HAMPTON SCHOOL, NEW HAMPTON, NEW HAMPSHIRE, JULY 28-AUGUST 1, 1980 (CPE-8001981)*; 7 MONTHS $2,500

LONSDALE HAROLD K; *GORDON RESEARCH CONFERENCE ON SYNTHETIC MEMBRANES: JUNE 16-20, 1980 COLBY-SAWYER COLLEGE, NEW LONDON, NEW HAMPSHIRE (CPE-8008430)*; 6 MONTHS $3,000

UNIVERSITY OF RHODE ISLAND

GONZALEZ, RICHARD D; *SIMULTANEOUS INFRARED AND KINETIC STUDIES OF SUPPORTED GROUP VIII METALS AND SUPPORTED BIMETALLIC CLUSTERS (CPE-7990155*)*; 12 MONTHS $35,270

ESTRIN, JOSEPH, AND TADROS, MAHER K; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THE MECHANISMS OF GROWTH AND MORPHOLOGICAL STABILITY OF SPARINGLY SOLUBLE CRYSTALS (CPE-8018110*)*; 12 MONTHS $12,667

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

BOGUE, DONALD C; *THE NON-ISOTHERMAL, NON-ISOTROPIC BEHAVIOR OF AMORPHOUS POLYMERS (CPE-7925104)*; 12 MONTHS $52,360

TEXAS

NORTH TEXAS STATE UNIVERSITY

DUGGAN, JEROME L; *SIXTH CONFERENCE ON THE APPLICATION OF ACCELERATORS IN RESEARCH AND INDUSTRY; DENTON, TEXAS; NOVEMBER 3-5, 1980 (PHY-8017256*)*; 12 MONTHS $2,000

TEXAS A & M UNIVERSITY

RHEE, KHEE C; *PHYSICO-CHEMICAL PROPERTIES OF TEXTURED PROTEIN PRODUCTS (CPE-7913170)*; 24 MONTHS $91,042

HALL, KENNETH R; *THERMODYNAMIC PROPERTIES MEASUREMENTS WITH A MULTIPLE BURNETT-ISOCHORIC APPARATUS (CPE-7919537)*; 12 MONTHS $56,973

TATTERSON, GARY B; *STRUCTURAL MIXING IN AGITATED VESSELS (CPE-7920814 A01)*; 12 MONTHS $49,270

TEXAS TECH UNIVERSITY

TURIAN, RAFFI M; *BASIC STUDIES ON THE FLOW OF SETTLING SLURRIES (CPE-7827000 A01)*; 12 MONTHS $45,486

UNIV OF TEXAS AT AUSTIN

SCHECHTER, ROBERT S; *SURFACE RHEOLOGY: THEORY, MEASUREMENT AND APPLICATION (CPE-7815315 A01)*; 12 MONTHS $39,881

EKERDT, JOHN G; *SPECIALIZED RESEARCH EQUIPMENT: STUDIES OF CATALYTIC MECHANISMS THROUGH THE USE OF TRANSIENT RESPONSE MEASUREMENTS (CPE-7923609)*; 12 MONTHS $18,000

HERTEL, NOLAN E; *RESEARCH INITIATION: HIGH-ENERGY NEUTRON TRANSPORT STUDIES (CPE-8006674)*; 24 MONTHS $39,975

EKERDT, JOHN G; *RESEARCH INITIATION - CHARACTERIZATION OF LIGAND-BOUND TRANSITION METAL COMPLEXES: EFFECTS OF THE PHYSICAL ENVIRONMENT ON CATALYST PERFORMANCE (CPE-8006720)*; 24 MONTHS $40,000

LAWLER, DESMOND; *PARTICLE APPROACH TO THE THICKENING PROCESS (CPE-8014907)*; 12 MONTHS $16,125

MATTHEWS, RONALD D; *RESEARCH INITIATION - EXPERIMENTAL AND THEORETICAL INVESTIGATION OF SYNTHETIC POLYMER IGNITION (CPE-8019539)*; 24 MONTHS $24,968

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

PAYATAKES, A C; *EXPERIMENTAL STUDIES AND MODELING OF THE TRANSIENT BEHAVIOR OF DEEP BED FILTRATION (CPE-7918883)*; 24 MONTHS $74,985

PAYATAKES, A C; *TRANSIENT AEROSOL PARTICLE DEPOSITION IN FIBROUS MEDIA WITH DENDRITIC PATTERN (CPE-7923200)*; 24 MONTHS $72,244

LUSS, DAN; *EXPERIMENTAL AND ANALYTICAL STUDY OF STEADY-STATE MULTIPLICITY AND DYNAMICS OF CATALYTIC REACTORS (CPE-7925381)*; 12 MONTHS $57,211

TILLER, FRANK M, AND CRUMP, JOSEPH R; *SOLID-LIQUID SEPARATIONS IN COMPRESSIBLE FILTER CAKES (CPE-7926030)*; 24 MONTHS $70,264

UTAH

BRIGHAM YOUNG UNIVERSITY

BARTHOLOMEW, CALVIN H; *CATALYSIS OF CARBON DIOXIDE HYDROGENATION BY NICKEL AND OTHER GROUP VIII METALS (CPE-7910823)*; 24 MONTHS $86,954

HEDMAN, PAUL O, AND SMOOT, L D; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: PULVERIZED COAL COMBUSTION AND GASIFICATION (CPE-7925796)*; 12 MONTHS $28,290

BARTHOLOMEW, CALVIN H, CHRISTENSEN, JAMES J, AND EATOUGH, DELBERT J; *SPECIALIZED ENGINEERING RESEACH EQUIPMENT: A MOESSBAUER SPECTROMETER FOR CATALYSIS AND THERMOCHEMISTRY RESEARCH (CPE-8010780)*; 12 MONTHS $20,000

UNIVERSITY OF UTAH

MILLER, JAN D, AND HERBST, JOHN A; *SPECIALIZED RESEARCH EQUIPMENT: HIGH GRADIENT MAGNETIC SEPARATOR (CPE-8014656)*; 12 MONTHS $12,500

VIRGINIA

OLD DOMINION UNIVERSITY

MOLEN, G M; *CHARGED PARTICLE BEAMS FROM A PLASMA FOCUS (CPE-7925563)*; 12 MONTHS $88,102

UNIVERSITY OF VIRGINIA

GAINER, JOHN L, KIRWAN, DONALD J, AND GADEN, ELMER L; *ADSORBED AND COVALENTLY-BOUND MICROBES: CHARACTERISTICS AND PERFORMANCE (CPE-8004373)*; 12 MONTHS $71,934

VIRGINIA POLYTECHNIC INSTITUTE

SEBBA, FELIX; *PHYSICOCHEMICAL PROPERTIES OF BILIQUID FOAMS (POLYAPHRONS) (CPE-7920198)*; 24 MONTHS $46,398

WASHINGTON

UNIVERSITY OF WASHINGTON

BERG, JOHN C; *ELECTRIC FIELD AND CAPILLARY EFFECTS ON DROP CIRCULATION AND MASS TRANSFER (CPE-7920830)*; 24 MONTHS $104,889

SLEICHER, CHARLES A; *SPECIALIZED RESEARCH EQUIPMENT: TAPE DRIVE FOR A DATA AND PROGRAM STORAGE (CPE-8014649)*; 12 MONTHS $10,000

WASHINGTON STATE UNIVERSITY

GROSSHANDLER, WILLIAM L; *HEAT AND MASS TRANSFER IN REACTING MAGNESIUM HYDRIDE BEDS (CPE-7910602)*; 24 MONTHS $82,929

CROWE, CLAYTON T, AND STOCK, DAVID E; *METERING COEFFICIENTS FOR GAS-PARTICLE FLOWS (CPE-7925077)*; 24 MONTHS $79,445

ZOLLARS, RICHARD L; *VAPOR-LIQUID EQUILIBRIA OF MONOMERS OVER LATICES (CPE-7925344)*; 24 MONTHS $71,552

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

HENRY, JOSEPH D; *SEPARATION PROCESSES FOR THE REMOVAL PARTICLES FROM SYNTHETIC LIQUID FUELS (CPE-7918986)*; 24 MONTHS $125,000

CILENTO, EUGENE V; *RESEARCH INITIATION - AN EXPERIMENTAL AND THEORETICAL ANALYSIS OF THE CIRCULATION OF RED BLOOD CELLS THROUGH THE SPLEEN (CPE-8006758)*; 24 MONTHS $39,960

CILENTO, EUGENE V; *SPECIALIZED RESEARCH EQUIPMENT: PRESSURE MEASUREMENTS IN THE MICROVASCULAR SYSTEM (CPE-8014724)*; 12 MONTHS $6,250

EDDY, THOMAS L; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: SPECTROSCOPIC FACILITY FOR DIAGNOSTICS OF HIGH TEMPERATURE GASES (CPE-8015572)*; 12 MONTHS $16,650

WISCONSIN

UNIVERSITY OF WISCONSIN SYSTEM OFFICE

RAY, W HARMON; *FUNDAMENTAL STUDIES IN APPLIED COMPUTER CONTROL (CPE-7921510)*; 24 MONTHS $109,930

UNIVERSITY OF WISCONSIN-MADISON

HILL, CHARLES G; *LASER RAMAN SPECTROSCOPY OF SPECIES SORBED ON CATALYST SURFACES (CPE-7700061 A02)*; 12 MONTHS $26,700

BIRD, R BYRON; *MACROMOLECULAR HYDRODYNAMICS (CPE-7806789 A02)*; 12 MONTHS $90,000

DUMESIC, JAMES A; *WATER-GAS SHIFT CATALYST DESIGN STUDIES (CPE-7911130 A01)*; 12 MONTHS $62,065

STEWART, WARREN E; *TRANSPORT PHENOMENA AND REACTOR MODELLING (CPE-7913162*)*; 12 MONTHS $51,460

FOSTER, DAVID E; *RESEARCH INITIATION - PARTICULATE FORMATION IN A TURBULENT, BACKMIXED, GASEOUS FUELED REACTOR (CPE-8006665)*; 24 MONTHS $40,000

UNIVERSITY OF WISCONSIN-MILWAUKEE

CHANG, Y AUSTIN; *INVESTIGATION OF THERMODYNAMIC EQUATIONS OF STATE OF TERNARY INTERMETALLIC PHASES WITH LARGE RANGES OF HOMOGENEITY (CPE-7825602 A01)*; 12 MONTHS $38,195

CIVIL AND ENVIRONMENTAL ENGINEERING

ARIZONA

UNIVERSITY OF ARIZONA

WEBER, JEAN E, AND DUCKSTEIN, LUCIEN; *CRITERIA FOR CHOOSING A REGRESSION METHOD IN ENGINEERING DECISION-MAKING (CME-7905010)*; 12 MONTHS $62,732

HOENIG, STUART A; *FUNDAMENTAL THERMAL AND ELECTROCHEMICAL PHENOMENA ASSOCIATED WITH DRILLING PROCESSES IN ROCK (CME-7924590)*; 12 MONTHS $79,008

BHATTACHARYA, RABINDRA N; *FUNDAMENTAL STUDIES ON SUBSURFACE TRANSPORT THEORY (CME-8004499)*; 12 MONTHS $12,527

AMY, GARY L; *RESEARCH INITIATION -- A PARAMETRIC STUDY OF THE COAGULATION PROCESS TO OPTIMIZE THE REMOVAL OF TRIHALOMETHANE PRECURSORS FROM VARIOUS NATURAL AND SYNTHETIC WATERS (CME-8006845)*; 24 MONTHS $39,944

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

LIST, E J; *MEASUREMENT, MODELING AND ANALYSIS OF DISPERSION OF BUOYANT DISCHARGES IN THE COASTAL OCEAN (CME-7727398 A02)*; 12 MONTHS $135,388

RAICHLEN, FREDRIC; *THE KINEMATIC PROPERTIES OF BREAKING WAVES AND THEIR INTERACTION WITH BOTTOM PAVEMENTS (CME-7912434)*; 12 MONTHS $95,455

SCOTT, RONALD F; *CENTRIFUGE TESTING OF EARTH RETAINING STRUCTURES UNDER SEISMIC LOADING (CME-7913822)*; 12 MONTHS $55,564

BROOKS, NORMAN H, AND KOH, ROBERT C; *SEDIMENT TRANSPORT MECHANICS IN ALLUVIAL STREAMS (CME-7920311)*; 12 MONTHS $100,543

DAMES & MOORE

DAWDY, DAVID R; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: STOCHASTIC MODELING OF STREAMFLOW WITH A PHYSICAL BASIS (CME-7907793*)*; 12 MONTHS $50,383

HARVEY MUDD COLLEGE

GUPTA, KAJAL K; *DEVELOPMENT OF FINITE DYNAMIC ELEMENTS FOR DYNAMIC ANALYSIS OF STRUCTURES (CME-7919757)*; 12 MONTHS $44,430

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION-AMES RESEARCH CENTER

GIOVANNETTI, ANGELO; *CENTRIFUGE FACILITY FOR RESEARCH IN GEOTECHNICAL ENGINEERING (CME-7826122 A03)*; 12 MONTHS $437,000

STANFORD UNIVERSITY

HSU, E Y; *EXPERIMENTAL STUDIES ON THE STRUCTURE OF TURBULENT BOUNDARY LAYERS GROWING ON A DEFORMABLE AIR-WATER INTERFACE (CME-7817618 A01)*; $15,000

HSU, E Y; *EXPERIMENTAL STUDIES ON THE STRUCTURE OF TURBULENT BOUNDARY LAYERS GROWING ON A DEFORMABLE AIR-WATER INTERFACE (CME-7817618 A02)*; 12 MONTHS $76,333

LECKIE, JAMES O, AND YOUNG, LILY Y; *THE ROLE OF THE AIR/WATER INTERFACE IN THE TRANSPORT AND ACCUMULATION OF HEAVY METALS IN ESTUARINE SYSTEMS (CME-7822085 A01)*; 12 MONTHS $93,505

STEELE, CHARLES R; *ASYMPTOTIC INTEGRATION OF THIN SHELL EQUATIONS (CME-7905682)*; 24 MONTHS $91,751

MCCARTY, PERRY L; *TRACE ORGANIC DEGRADATION IN BIOFILM PROCESSES (CME-7905707)*; 24 MONTHS $155,420

FRANZINI, JOSEPH B; *MIXING PROCESSES IN THE SIMULATION MODELING OF IRREGULARLYSHAPED WATER BODIES (CME-7921324)*; 12 MONTHS $120,162

LECKIE, JAMES O; *TRANSFORMATION PROCESSES AFFECTING TRACE METAL ACCUMULATION AND TRANSPORT IN SALT MARSH ENVIRONMENTS (CME-7922079)*; 12 MONTHS $51,286

UNIVERSITY OF CALIFORNIA, BERKELEY

JENKINS, DAVID; *ACTIVATED SLUDGE FLOC STRUCTURE AND ITS RELATION TO PROCESS PERFORMANCE (CME-7684422 A02)*; $10,000

GOODMAN, RICHARD E; *IN-SITU ABSOLUTE STATE OF STRESS IN ROCK (CME-7824439 A01)*; 12 MONTHS $73,142

POLIVKA, MILOS, GERWICK, B C, AND PIRTZ, DAVID; *STATIC AND CYCLIC BEHAVIOR OF REINFORCED AND PRESTRESSED LIGHTWEIGHT CONCRETE AT CRYOGENIC TEMPERATURES (CME-7906889)*; 24 MONTHS $159,093

SCORDELIS, ALEXANDER C; *NONLINEAR ANALYSIS AND ULTIMATE STRENGTH OF CONCRETE BOX GIRDER BRIDGES (CME-7918057)*; 12 MONTHS $60,620

SACKMAN, J L, AND KELLY, JAMES M; *ANALYSIS OF INTERACTING EQUIPMENT - STRUCTURE SYSTEMS (CME-7923651)*; 12 MONTHS $53,388

COOK, NEVILLE G W; *WORKSHOP ON LARGE SCALE LABORATORY TESTING IN GEOMECHANICS, BERKELEY, CALIFORNIA - JUNE 1980 (CME-8011588)*; 12 MONTHS $31,852

UNIVERSITY OF CALIFORNIA, DAVIS

CHENEY, JAMES A; *CENTRIFUGE FACILITY FOR RESEARCH IN GEOTECHNICAL ENGINEERING (CME-7813922 A02)*; 12 MONTHS $35,635

HERRMANN, L R; *DEVELOPMENT, IMPLEMENTATION AND VERIFICATION OF A BOUNDING SURFACE PLASTICITY MODEL FOR COHESIVE SOILS (CME-7910835)*; 18 MONTHS $89,501

LAROCK, BRUCE E; *SEDIMENTATION BASIN PERFORMANCE (CME-7914762)*; 36 MONTHS $130,075

TCHOBANOGLOUS, GEORGE; *SPECIALIZED RESEARCH EQUIPMENT: SPECTRORADIOMETER SYSTEM (CME-7920974)*; 12 MONTHS $5,947

KITAMURA, RYUICHI; *RESEARCH INITIATION - STRUCTURE OF TRIP-CHAINING BEHAVIOR: EXPLORATION OF HISTORY DEPENDENCE AND TIME INHOMOGENEITY (CME-8006293)*; 24 MONTHS $40,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

HART, GARY C; *MICROZONATION (CME-7902987*)*; 24 MONTHS $138,000

STENSTROM, MICHAEL K; *OXYGEN LIMITED NITRIFICATION IN WASTEWATER TREATMENT (CME-7911792)*; 12 MONTHS $36,268

UNIVERSITY OF CALIFORNIA, RIVERSIDE

BIRGE, ROBERT R, AND SPOSITO, GARRISON; *CHEMICAL MECHANISMS OF ATTENUATION OF HAZARDOUS TRACE METALS BY CLAY MINERALS IN SEDIMENTS AND SOILS (CME-7916336)*; 24 MONTHS $124,666

SPOSITO, GARRISON; *FUNDAMENTAL STUDIES ON SUBSURFACE TRANSPORT THEORY (CME-7920778)*; 12 MONTHS $19,976

COLORADO

COLORADO STATE UNIVERSITY

MOREL-SEYTOUX, HUBERT J; *MODEL OF STREAM-SOIL-AQUIFER INTERACTIONS SUITED FOR SURFACE GROUND WATER QUALITY MANAGEMENT (CME-7800733 A01)*; 12 MONTHS $36,200

MUALEM, YECHEZKEL; *THE ROLE OF HYSTERESIS OF THE HYDRAULIC PROPERTIES OF SOILS IN UNSATURATED FLOW PROCESSES (CME-7800845 A01)*; 12 MONTHS $61,984

WEDDING, JAMES B; *THE BEHAVIOR OF HEAVY PARTICLES IN ATMOSPHERIC FLOW (CME-7805385 A01)*; 12 MONTHS $97,261

SHEN, HSIEH W; *ALLUVIAL BED FORM RESISTANCE AND SEDIMENT MOVEMENTS (CME-7825054 A01)*; 12 MONTHS $68,000

CERMAK, JACK E; *MICROZONATION FOR WIND LOADS (CME-7902988*)*; 24 MONTHS $134,746

GOODMAN, JAMES R; *STRENGTH BEHAVIOR OF WOOD-AN ANISOTROPIC, INHOMOGENEOUS, DISCONTINUOUS MATERIAL (CME-7918170)*; 12 MONTHS $119,295

UNIVERSITY OF COLORADO AT BOULDER

GERSTLE, KURT H, AND NIES, WOLFGANG; *MEASUREMENT OF BOND-SLIP IN REINFORCED CONCRETE BY MAGNETIC INDUCTION TECHNIQUES (CME-7827568 A01)*; 12 MONTHS $48,867

SCHIFFMAN, ROBERT L, AND KO, HON-YIM; *FINITE STRAIN CONSOLIDATION ANALYSIS OF THICK SOIL DEPOSITS (CME-7901831)*; 12 MONTHS $61,617

FLACK, J E, AND HUGHES, WILLIAM C; *A STUDY OF THE CHARACTERISTICS OF THE HYDRAULIC JUMP OVER A ROUGH-POROUS BED (CME-7918029)*; 24 MONTHS $89,331

SATHER, DUANE P; *APPLICATIONS OF PARTIAL DIFFERENTIAL EQUATIONS AND GROUP REPRESENTATIONS TO NONLINEAR SHELL THEORY (MCS-7923650*)*; 12 MONTHS $6,067

ABRAMS, DANIEL P; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: A CLOSED-LOOP HYDRAULIC TESTING SYSTEM FOR CIVIL ENGINEERING RESEARCH (CME-7925747)*; 12 MONTHS $21,340

GERSTLE, KURT H; *RESPONSE OF CONCRETE TO MULTI-AXIAL LOAD HISTORIES (CME-8001508)*; 12 MONTHS $56,400

CONNECTICUT

UNIVERSITY OF CONNECTICUT

SMITH, ERLING A; *COLLAPSE BEHAVIOR OF SPACE TRUSSES (CME-7910093)*; 24 MONTHS $96,432

DELAWARE

UNIVERSITY OF DELAWARE

WU, JIN, AND LAI, RONALD J; *THE EFFECTS OF WATER TEMPERATURE ON TRANSPORT PHENOMENA IN OPEN CHANNEL FLOW (CME-7611816 A02)*; $14,445

HUANG, CHIN-PAO; *CHEMICAL INTERACTIONS BETWEEN COMPLEXED HEAVY METALS AND HYDROUS SOLIDS: THE EFFECTS OF COMPLEX FORMATION ON INTERFACIAL REACTIONS (CME-7727379 A02)*; 12 MONTHS $56,870

DEMARS, KENNETH R; *EFFECTIVE STRESS STATE AND STABILITY OF GRANULAR BEDS SUBJECTED TO WAVE PRESSURES (CME-7918241)*; 12 MONTHS $31,960

KERR, ARNOLD D; *FUNDAMENTAL PROBLEMS IN RAILROAD TRACK MECHANICS (CME-8001928*)*; 12 MONTHS $21,907

DISTRICT OF COLUMBIA

AMERICAN SOCIETY FOR ENGINEERING EDUCATION

BAUMANN, DWIGHT M; *A NATIONAL CONFERENCE FOR DEANS OF BUSINESS AND ENGINEERING SCHOOLS (ISP-8020870 A01*)*; 6 MONTHS $18,991

GEORGE WASHINGTON UNIVERSITY

YEVJEVICH, VUJICA M; *STOCHASTIC WATER STORAGE THEORY (CME-7916817)*; 12 MONTHS $91,259

YEVJEVICH, VUJICA M; *A WORKSHOP ON RESEARCH NEEDS IN HYDROLOGY AND WATER RESOURCES OF KARSTIFIED CARBONATE TERRANES - TO BE HELD IN WASHINGTON, D.C. AT GEORGE WASHINGTON U., APRIL 7-9, 1980 (CME-7916895)*; 12 MONTHS $38,569

HOWARD UNIVERSITY

REISS, ROBERT; *A VARIATIONAL APPROACH TO OPTIMAL DESIGN OF STRUCTURES (CME-7921128)*; 12 MONTHS $26,330

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

KASPER, RAPHAEL; *PARTIAL SUPPORT OF THE INTERNATIONAL ENVIRONMENTAL PROGRAMS COMMITTEE (INT-7826469 A02*)*; 12 MONTHS $6,000

FLORIDA

UNIVERSITY OF FLORIDA

PARTHENIADES, EMMANUEL; *DEPOSITIONAL BEHAVIOR OF FINE SEDIMENTS IN ESTUARINE FLOWS (CME-7710148 A01)*; 12 MONTHS $97,568

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

LE MEHAUTE, BERNARD; *ESTABLISHMENT OF MATHEMATICAL MODELLING OF SHORELINE EVOLUTION (CME-7911930 A01)*; 12 MONTHS $40,583

YAMAMOTO, TOKUO; *WAVE INDUCED PRESSURE AND STRESS INSTABILITIES IN PORO-ELASTIC BEDS, SUCH AS SAND BEDS (CME-8009528)*; 24 MONTHS $87,342

UNIVERSITY OF MIAMI

VAN DE KREEKE, JACOBUS; *ENGINEERING SOLUTIONS TO THE LAGRANGIAN TIDAL EQUATIONS FOR SHALLOW WATER (CME-7909888)*; 24 MONTHS $71,364

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

WEMPNER, G A; *MECHANICS OF ELASTIC-PLASTIC SHELLS (CME-7918420)*; 12 MONTHS $50,550

LEE, SAI H; *RESEARCH INITIATION - DETERMINATION OF MICROBIAL FLORA IN POTABLE WATER (CME-8006749)*; 24 MONTHS $40,000

ILLINOIS

NORTHWESTERN UNIVERSITY

DASKIN, MARK S; *RESEARCH INITIATION - LOCATION TECHNIQUES FOR FINITE CAPACITY SERVICE CENTERS SUBJECT TO RANDOM BREAKDOWNS (CME-8006777)*; 24 MONTHS $39,994

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

NAAMAN, ANTOINE E, AND SHAH, SURENDRA P; *FRACTURE AND MULTIPLE CRACKING OF FIBER REINFORCED CEMENTITIOUS MATRICES (CME-7923534 A02)*; 12 MONTHS $51,275

NAAMAN, ANTOINE E; *ENGINEERING SPECIALIZED RESEARCH EQUIPMENT: A TEST SET-UP FOR FATIGUE TESTING OF PARTIALLY PRESTRESSED CONCRETE BEAMS AND FOR OTHER STRUCTURAL LOAD/MEMBER COMBINATIONS (CME-7910985)*; 12 MONTHS $51,244

UNIVERSITY OF ILLINOIS AT URBANA

MESRI, GHOLAMREZ A; *CONSOLIDATION, SWELLING, CREEP AND DETERIORATION OF CLAYS AND SHALES (CME-7820622 A01)*; 12 MONTHS $64,363

YOUNG, J F, BERGER, RICHARD L, AND LAWRENCE, FREDERICK V; *IMPROVEMENT OF STRENGTH DEVELOPMENT OF PORTLAND CEMENT (CME-7822068 A01)*; 12 MONTHS $58,775

AIFANTIS, ELIAS C; *THERMOMECHANICAL RESPONSE OF FLUID-INFILTRATED FISSURED ROCK (CME-7824422 A01)*; 12 MONTHS $39,000

WEN, Y K; *RELIABILITY OF STRUCTURES UNDER MULTIPLE HAZARDS (CME-7918053)*; 12 MONTHS $40,335

YEN, BEN C; *SECOND INTERNATIONAL CONFERENCE ON URBAN STORM DRAINAGE, JUNE 14-19, 1981 AT THE UNIVERSITY OF ILLINOIS, URBANA (CME-7922990)*; 12 MONTHS $25,660

SCRIBNER, CHARLES F; *RESEARCH INITIATION - EFFECTS OF LOAD HISTORY ON DETERIORATION OF REINFORCED CONCRETE FLEXURAL MEMBERS (CME-8006711)*; 24 MONTHS $40,000

INDIANA

PURDUE UNIVERSITY

GRADY, C P, AND KIRSCH, EDWIN J; *FACTORS AFFECTING THE QUANTITY AND QUALITY OF ORGANIC MICROBIAL BY-PRODUCTS IN ACTIVATED SLUDGE EFFLUENTS (CME-7712649 A02)*; 12 MONTHS $73,297

LOW, PHILIP F, ROTH, CHARLES B, AND WINSLOW, D N; *THE RELATIONSHIP BETWEEN THE SPECIFIC SURFACE OF A CLAY AND ITS SWELLING PROPERTIES (CME-7824431 A01)*; 12 MONTHS $47,800

KIVIOJA, LASSI A; *A NEW CORRECTION TO EDM SLOPE DISTANCES AND APPLICATION OF UNTILTED CORNER REFLECTORS (CME-7912679)*; 12 MONTHS $115,880

HOUCK, MARK H; *RESERVOIR SYSTEM OPERATING RULES (CME-7916319)*; 24 MONTHS $90,270

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

PLETCHER, RICHARD H; *ANALYSIS OF TURBULENT BOUNDARY LAYERS (CME-7812901 A01)*; 12 MONTHS $51,153

UNIVERSITY OF IOWA

KENNEDY, JOHN F, AND TATINCLAUX, JEAN C; *MECHANICS OF ICE-STREAM SYSTEMS (CME-7713176 A02)*; 12 MONTHS $71,667

WU, HAN-CHIN; *ENDOCHRONIC THEORY FOR THE MECHANICAL BEHAVIOR OF SAND (CME-7916590)*; 12 MONTHS $30,236

HAUG, EDWARD J; *CONFERENCE ON OPTIMIZATION OF DISTRIBUTED PARAMETER STRUCTURAL SYSTEMS TO BE HELD IN IOWA CITY, IOWA, MAY 1980 (CME-8001677)*; 12 MONTHS $27,440

HAUG, EDWARD J; *OPTIMAL DESIGN OF DISTRIBUTED PARAMETER STRUCTURES (CME-8005677)*; 12 MONTHS $61,243

KANSAS

KANSAS STATE UNIVERSITY

LEE, E S; *INVARIANT IMBEDDING AND NONLINEAR BOUNDARY-VALUE PROBLEMS IN GROUND WATER MODELING (CME-7706757 A02)*; 12 MONTHS $54,011

UNIVERSITY OF KANSAS MAIN CAMPUS

DARWIN, DAVID; *ROLE OF CEMENT PASTE IN DEFORMATION AND CRACKING OF PLAIN CONCRETE (CME-7918414)*; 12 MONTHS $35,205

KENTUCKY

UNIVERSITY OF KENTUCKY

HARDIN, BOBBY O; *EFFECTIVE STRENGTH OF SOILS AND THE INDIRECT MEASUREMENT OF MINERAL FRICTION (CME-7909965)*; 12 MONTHS $51,000

WETS, ROGER; *NONDIFFERENTIABLE OPTIMIZATION (ECS-7913272*)*; 12 MONTHS $20,000

DRNEVICH, VINCENT P; *ENGINEERING SPECIALIZED RESEARCH EQUIPMENT: A DUAL CHANNEL SIGNAL ANALYZER FOR DYNAMIC MEASUREMENTS IN MECHANICS RELATED RESEARCH (CME-8014113*)*; 12 MONTHS $15,000

MARYLAND

MARTIN MARIETTA CORPORATION-MARTIN MARIETTA LABORATORY

SKALNY, JAN P; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FORMATION AND REACTIVITY OF TRICALCIUM SILICATE AND DICALCIUM SILICATE (CME-7902665*)*; 12 MONTHS $43,617

UNIVERSITY OF MARYLAND, COLLEGE PARK

YANG, JACKSON C, AND HEINS, CONRAD P; *APPLICATION OF RANDOMDEC ANALYSIS FOR THE MEASUREMENT OF DAMPING AND THE DETECTION OF STRUCTURAL DETERIORATION (CME-7712745 A01)*; 12 MONTHS $17,000

ANTMAN, STUART S; *NONLINEAR PROBLEMS OF SOLID MECHANICS (MCS-8001844*)*; 12 MONTHS $8,319

SCHWARTZ, CHARLES W; *RESEARCH INITIATION - CREEP OF JOINTED ROCK (CME-8006835)*; 24 MONTHS $40,000

LEE, SUNG W; *RESEARCH INITIATION - FINITE ELEMENT ANALYSIS OF STRUCTURES UNDERGOING CREEP WITH MATERIAL DAMAGE (CME-8006846)*; 24 MONTHS $38,120

ALLEMAN, JAMES E; *RESEARCH INITIATION - A STREAMLINED APPROACH TO BIOLOGICAL NITROGEN REMOVAL IN WASTEWATER TREATMENT (CME-8006856)*; 24 MONTHS $39,889

MASSACHUSETTS

HARVARD UNIVERSITY

SANDERS, J LYELL; *ANALYSIS OF A CIRCUMFERENTIAL CRACK IN A COMPLETE CYLINDRICAL SHELL UNDER TENSION (CME-8007477)*; 12 MONTHS $36,618

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

WHITMAN, ROBERT V; *MODELING DYNAMIC GROUND SHAKING BY CENTRIFUGE (CME-7901815)*; 12 MONTHS $92,236

HARLEMAN, DONALD R; *EUTROPHICATION MODELS FOR LAKES: ANALYSIS OF HYDROTHERMALBIOCHEMICAL COUPLINGS IN RELATION TO PREDICTIVE CAPABILITY (CME-7906125 A01)*; 12 MONTHS $67,370

LANDAHL, MARTEN T, AND WIDNALL, SHEILA E; *THE ROLE OF SMALL SCALES IN THE GENERATION OF WATER WAVES BY WIND (CME-7912132)*; 12 MONTHS $63,404

BRAS, RAFAEL L, AND VENEZIANO, DANIELE; *SAMPLING AND ESTIMATION OF UNCERTAIN FUNCTIONS (CME-7919536)*; 12 MONTHS $50,000

MEI, CHIANG C; *DYNAMIC MECHANICAL RESPONSE OF SATURATED POROUS MEDIA IN GEOMECHANICS (CME-7921993*)*; 12 MONTHS $35,780

AIROUCHAKIS, PAUL C; *RESEARCH INITIATION - MICROFRACTURING AND INELASTIC DEFORMATION OF SEA ICE IN FLEXURE (CME-8006849)*; 24 MONTHS $40,000

LADD, CHARLES C; *ENGINEERING SPECIALIZED RESEARCH EQUIPMENT: PRECISE STRAIN MEASUREMENTS FROM RADIOGRAPHS AND PHOTOGRAPHS IN EXPERIMENTAL SOIL MECHANICS (CME-8014900)*; 12 MONTHS $9,400

UNIVERSITY OF MASSACHUSETTS, AMHERST

HILLEL, DANIEL I; *DEVELOPMENT OF A COMPREHENSIVE MECHANISTIC MODEL OF WATER DYNAMICS IN A SLOPING FIELD (CME-7800746 A02)*; 12 MONTHS $79,700

DIGIANO, FRANCIS A, AND LAMOTTA, ENRIQUE J; *INTERACTION BETWEEN MICROBIAL DEGRADATION AND ADSORPTION IN THE BIOLOGICAL ACTIVATED CARBON (BAC) PROCESS (CME-7916190)*; 12 MONTHS $49,975

MICHIGAN

MICHIGAN STATE UNIVERSITY

ANDERSLAND, ORLANDO B; *REINFORCED SAND-ICE CONSTRUCTION MATERIAL SYSTEMS (CME-7915784)*; 12 MONTHS $52,877

MICHIGAN TECHNOLOGICAL UNIVERSITY

ALKIRE, BERNARD D; *A MECHANISTIC UNDERSTANDING OF SOILS STRAIN DUE TO CYCLIC APPLICATIONS OF STRESS AND TEMPERATURE (CME-7904261)*; 18 MONTHS $44,110

ALKIRE, BERNARD D; *ENGINEERING SPECIALIZED RESEARCH EQUIPMENT: DYNAMIC RESPONSE OF FROZEN SOILS (CME-7918561)*; 12 MONTHS $32,150

CRITTENDEN, JOHN C; *MATHEMATICAL MODELING OF FIXED BED ADSORPTION SYSTEMS FOR WATER TREATMENT (CME-7914589)*; 12 MONTHS $43,185

UNIVERSITY OF MICHIGAN

RICHART, FRANK E; *TIME EFFECTS ON DYNAMIC PROPERTIES OF COHESIVE SOILS (CME-7822063 A01)*; 12 MONTHS $47,180

GRAY, DONALD H; *MECHANICS OF FIBER AND ROOT REINFORCEMENT OF SANDY SOIL (CME-7910553)*; 12 MONTHS $44,002

MINNESOTA

UNIVERSITY OF MINNESOTA

STRACK, OTTO D; *INTERACTIVE COMPUTER GRAPHICS ASSISTED DISTINCT ELEMENT APPROACHES IN GEOTECHNICAL ENGINEERING (CME-7907799)*; 12 MONTHS $82,631

STEFAN, HEINZ G; *SYMPOSIUM ON SURFACE-WATER IMPOUNDMENTS JUNE 2-4, 1980 IN MINNEAPOLIS, MINNESOTA (CME-8005434)*; 15 MONTHS $16,786

MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY

SINGH, VIJAY P; *FREE BOUNDARY PROBLEMS IN WATER RESOURCE ENGINEERING (CME-7825637 A01)*; 12 MONTHS $91,"?7

UNIVERSITY OF MISSISSIPPI

WANG, SHU-YI; *THIRD INTERNATIONAL CONFERENCE ON FINITE ELEMENTS IN WATER RESOURCES TO BE HELD AT THE UNIVERSITY OF MISSISSIPPI, MAY 19-23, 1980 (CME-7920489)*; 12 MONTHS $15,930

GUPTA, VINEY K; *FUNDAMENTAL STUDIES ON SUBSURFACE TRANSPORT THEORY (CME-8004490)*; 12 MONTHS $25,020

MONTANA

MONTANA STATE UNIVERSITY

BROWN, ROBERT L; *A THERMODYNAMIC STUDY OF TEMPERATURE GRADIENT METAMORPHISM OF DRY SNOW PACK (CME-7901636 A01)*; 12 MONTHS $33,984

BROWN, ROBERT L; *A THERMODYNAMIC STUDY OF TEMPERATURE GRADIENT METAMORPHISM OF DRY SNOW PACK (CME-7901636 A02)*; 12 MONTHS $9,771

BROWN, ROBERT L; *STRESS WAVES IN WET SNOW (CME-7918050)*; 12 MONTHS $23,241

BOYD, DONALD W; *MICROCOMPUTER SYSTEM FOR THE DEVELOPMENT OF AND TRAINING IN THE USE OF NATURAL RESOURCES PLANNING MODELS (CME-7925812)*; 12 MONTHS $15,345

BROWN, ROBERT L; *JOINT U. S. - CANADIAN WORKSHOP ON SNOW MECHANICS-SNOWBIRD, UTAH, MARCH 1981 (CME-8001927)*; 12 MONTHS $15,000

NEW JERSEY

PRINCETON UNIVERSITY

CAKMAK, AHMET S, AND BABU, D KRISHNA; *TRANSIENT FLOWS OF LIQUIDS THROUGH INHOMOGENEOUS AND FRACTURED POROUS MEDIA: SOLUTIONS BY PERTURBATIONS (CME-7824413 A01)*; 12 MONTHS $85,223

PINDER, GEORGE F; *INVESTIGATION OF A NEW NUMERICAL APPROACH TO THE SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS IN WATER RESOURCE ENGINEERING (CME-7905887)*; 24 MONTHS $105,175

WOOD, ERIC F; *DEVELOPMENT OF A STOCHASTIC-CONCEPTUAL HYDROLOGIC MODEL FOR ANALYZING THE STATISTICAL RESPONSE OF FLOW GENERATION AND FLOOD DYNAMICS (CME-7915168)*; 24 MONTHS $92,153

GRAY, WILLIAM G, PINDER, GEORGE F, AND CRERAR, DAVID A; *INVESTIGATION INTO THE PHYSICAL-CHEMICAL ASPECTS OF SOLUTION MINING (CME-7920596*)*; 12 MONTHS $67,143

GRAY, WILLIAM G; *A TWO-DIMENSIONAL FINITE ELEMENT MODEL FOR SURFACE FLOW SIMULATION (CME-7921076)*; 12 MONTHS $30,609

FERRARA, RAYMOND A; *RESEARCH INITIATION -- POLLUTANT REMOVAL IN STORMWATER DETENTION BASINS (CME-8006732)*; 24 MONTHS $38,080

STEVENS INSTITUTE OF TECHNOLOGY

WANG, LAWRENCE K; *PURCHASE OF SPECIALIZED ENGINEERING RESEARCH EQUIPMENT (CME-8014203)*; 24 MONTHS $16,800

NEW YORK

CLARKSON COLLEGE OF TECHNOLOGY

SWITZENBAUM, MICHAEL S; *RESEARCH INITIATION: ANAEROBIC ATTACHED FILM EXPANDED BED REACTOR TREATMENT OF HIGH STRENGTH ORGANIC WASTES FOR ENERGY PRODUCTION AND POLLUTION CONTROL (CME-8005705)*; 24 MONTHS $38,934

SANCAKTAR, EROL; *RESEARCH INITIATION -- THE EFFECTS OF CURE TEMPERATURE AND TIME ON THE STRAIN ENERGY RELEASE RATE AND BULK TENSILE PROPERTIES OF A STRUCTURAL EPOXY ADHESIVE (CME-8007251)*; 24 MONTHS $36,016

COLUMBIA UNIVERSITY

DIMAGGIO, FRANK L; *DYNAMIC RESPONSE OF SUBMERGED STRUCTURES USING AN IMPROVED UNCOUPLING SCHEME (CME-7912156)*; 24 MONTHS $79,464

CORNELL UNIVERSITY

ABEL, JOHN F; *THREE DIMENSIONAL INTERACTIVE COMPUTER GRAPHICS IN STRUCTURAL- AND GEO-MECHANICS (CME-7916818*)*; 24 MONTHS $246,464

MUKHERJEE, SUBRATA; *ANALYSIS OF INELASTIC DEFORMATION IN METALS BY THE BOUNDARY ELEMENT METHOD (CME-7918658)*; 12 MONTHS $38,392

GOSSETT, JAMES M; *ALUMINUM-ORGANIC INTERACTIONS INFLUENCING ANAEROBIC DIGESTION OF COAGULATED SUBSTRATES (CME-7925967)*; 12 MONTHS $30,000

IRWIN, LYNN H; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: FALLING WEIGHT DEFLECTOMETER (CME-7925794)*; 12 MONTHS $25,025

NILSON, ARTHUR H, AND SLATE, FLOYD O; *BEHAVIOR OF HIGH STRENGTH CONCRETE BEAMS (CME-7926392)*; 12 MONTHS $104,557

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

NILSON, ARTHUR H, AND SLATE, FLOYD O; *STRUCTURAL PROPERTIES OF VERY HIGH-STRENGTH CONCRETE (CME-7805124 A01)*; 12 MONTHS $73,432

LOUCKS, DANIEL P, AND GREENBERG, DONALD P; *INTERACTIVE WATER RESOURCES PLANNING (CME-7815858 A01)*; 12 MONTHS $114,779

LIGGETT, JAMES A, AND LIU, PHILIP L; *BOUNDARY INTEGRAL SOLUTIONS TO GROUNDWATER PROBLEMS (CME-7902803)*; 12 MONTHS $67,082

BRUTSAERT, WILFRIED H; *SURFACE GAS TRANSFER IN ENVIRONMENTAL WATERS (CME-8004621)*; 12 MONTHS $27,675

RENSSELAER POLYTECHNIC INSTITUTE

SHEPHARD, MARK S; *FINITE ELEMENT GRID OPTIMIZATION USING INTERACTIVE COMPUTER GRAPHICS (CME-7916849)*; 12 MONTHS $36,369

SYRACUSE UNIVERSITY

DRISCOLL, CHARLES; *RESEARCH INITIATION - THE SIGNIFICANCE OF ALUMINUM IN THE FATE OF TRACE METALS IN DILUTE ACIDIFIED SURFACE WATERS (CME-8006733)*; 24 MONTHS $39,966

LETTERMAN, RAYMOND D, TIEN, CHI, LUNER, PHILIP, AND DRISCOLL, CHARLES; *SPECIALIZED RESEARCH EQUIPMENT: AUTOMATIC PARTICLE SIZING INSTRUMENT (CPE-8012424*)*; 12 MONTHS $3,000

UNITED ENGINEERING TRUSTEES INC

SAXENA, SURENDRA K; *ENGINEERING FOUNDATIONS CONFERENCE ON GEOTECHNICAL AND ENVIRONMENTAL ASPECTS OF GEOPRESSURE ENERGY, SEA ISLAND, GEORGIA, JANUARY 13-18, 1980 (CME-7921127)*; 12 MONTHS $6,000

OHIO

CASE WESTERN RESERVE UNIVERSITY

SAADA, ADEL S; *THE DYNAMIC RESPONSE OF ANISOTROPIC NATURAL CLAY SOILS (CME-7825968 A01)*; 12 MONTHS $55,807

HAIMES, YACOV Y; *THE INTEGRATION OF THE HIERARCHICAL AND MULTIOBJECTIVE APPROACHES (CME-7903605 A01)*; 12 MONTHS $60,000

KENT STATE UNIVERSITY

MANES, MILTON; *MULTICOMPONENT LIQUIDS-SOLIDS ADSORPTION FROM WATER ON ACTIVATED CARBON (CME-7909247)*; 24 MONTHS $52,208

OHIO STATE UNIVERSITY

BISHARA, ALFRED G; *VERIFICATION OF CONSTITUTIVE RELATIONS FOR SILAGE THROUGH FULL-SCALE SILO MEASUREMENTS (CME-7908408)*; 12 MONTHS $71,817

WOLFE, WILLIAM E; *ENGINEERING SPECIALIZED RESEARCH EQUIPMENT: DATA ACQUISITION SYSTEM FOR GEOTECHNICAL EXPERIMENTS UTILIZING A SHAKE TABLE (CME-8015984)*; 12 MONTHS $24,762

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

HADY, M A; *SPECIAL FOREIGN CURRENCY AWARD (EGYPTIAN CURRENCY AND U.S. DOLLARS) FOR USE OF MODERN REMOTE SENSING TECHNIQUES IN MONITORING DESERTIFICATION AND NATURAL RESOURCES (INT-8005188*)*; 36 MONTHS $50,000

OREGON

OREGON GRADUATE CENTER

HUNTSICKER, JAMES J; *GAS CHROMATOGRAPH-MASS SPECTROMETER-DATA SYSTEM FOR ENVIRONMENTAL RESEARCH INVOLVING ORGANIC POLLUTANTS (CME-7925740)*; 12 MONTHS $80,000

OREGON STATE UNIVERSITY

NATH, JOHN H; *HYDRODYNAMIC ROUGHNESS OF MARINE GROWTHS ON CYLINDERS (CME-7911787)*; 12 MONTHS $92,129

VINSON, TED S; *DYNAMIC PROPERTIES OF NATURALLY FROZEN SOILS (CME-7919697)*; 12 MONTHS $41,513

LEONARD, JOHN W; *STOCHASTIC ANALYSIS OF CABLE SYSTEMS AND CABLE-REINFORCED MEMBRANES (CME-7920473*)*; 18 MONTHS $54,048

PENNSYLVANIA

PENNSYLVANIA STATE UNIVERSITY

UNZ, RICHARD F; *THE ISOLATION AND CHARACTERIZATION OF FILAMENTOUS MICROORGANISMS FROM ACTIVATED SLUDGE BULKING (CME-7918919)*; 12 MONTHS $10,,089

UNIVERSITY OF PENNSYLVANIA

FRIESZ, TERRY L; *A METHODOLOGY FOR ALLOCATING PUBLIC INVESTMENT AMONG GEOGRAPHICAL REGIONS (CME-8001730)*; 24 MONTHS $32,000

UNIVERSITY OF PITTSBURGH

TORKAMANI, MORTEZA A; *ENGINEERING SPECIALIZED RESEARCH EQUIPMENT-LOW LEVEL VIBRATION INSTRUMENTATION (CME-8005955)*; 12 MONTHS $41,000

RHODE ISLAND

BROWN UNIVERSITY

KOLSKY, H; *IMPULSIVE LOADING OF FIBER-REINFORCED SIMPLE STRUCTURES (CME-7900342 A01)*; 12 MONTHS $70,423

SYMONDS, PAUL S; *SIMPLE APPROXIMATION METHOD FOR PULSE LOADED STRUCTURES INCLUDING ELASTIC DEFORMATIONS, FINITE DEFLECTIONS AND STRAIN RATE SENSITIVITY (CME-7926147)*; 12 MONTHS $49,070

UNIVERSITY OF RHODE ISLAND

KELLY, WILLIAM E; *RATE PROCESS PARAMETERS FOR EROSION OF WEAK COHESIVE SOILS (CME-7926297)*; 12 MONTHS $54,480

SOUTH CAROLINA

CLEMSON UNIVERSITY

BROWN, RUSSELL H; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: INSTALLATION AND CALIBRATION OF STRUCTURAL TESTING EQUIPMENT (CME-7925821)*; 12 MONTHS $11,250

TEXAS

TEXAS A & M UNIVERSITY

FLIPSE, JOHN E; *WORKSHOP ON DEEP OCEAN MINING RESEARCH REQUIREMENTS FOR THE 1980'S; COLLEGE STATION, TEXAS; MAY 26 - 28, 1980 (CME-7915783*)*; 12 MONTHS $7,500

GARCIA-DIAZ, ALBERTO; *RESEARCH INITIATION - SELECTION AND SCHEDULING OF REHABILITATION ALTERNATIVES IN A ROAD-BRIDGE RURAL TRANSPORTATION SYSTEM CONSISTING OF MULTIPLE LOCAL UNITS (CME-8006718)*; 24 MONTHS $40,000

BRIAUD, JEAN LOUI; *JOINT INDUSTRY/UNIVERSITY COOP RESEARCH ACTIVITY: RESEARCH INITIATION-CHARACTERIZATION OF SOIL BEHAVIOR WITH THE PRESSUREMETER FOR PREDICTING THE LATERAL CAPACITY OF PILES (CME-8006797*)*; 24 MONTHS $9,996

UNIV OF TEXAS AT AUSTIN

HAYES, LINDA J; *DEVELOPMENT OF AN ALTERNATING-DIRECTION COLLOCATION METHOD FOR NON-RECTANGULAR REGIONS (CME-7915789)*; 24 MONTHS $58,061

OLSON, ROY E; *THEORETICAL AND EXPERIMENTAL STUDIES OF CONSOLIDATION OF SOILS AROUND SAND DRAINS (CME-7918195)*; 12 MONTHS $55,946

SPANOS, POL; *LINEARIZATION TECHNIQUES FOR FLOW-INDUCED VIBRATIONS (CME-7918570)*; 12 MONTHS $35,463

STERN, MORRIS; *BOUNDARY INTEGRAL METHODS FOR PLATE BENDING CALCULATIONS (CME-7919529)*; 12 MONTHS $26,856

HOLLEY, E R; *TRANSPORT OF EFFLUENTS IN RIVERS, PHASE II (CME-7923183)*; 12 MONTHS $40,000

STEARMAN, RONALD O; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: FOR STRUCTURAL DYNAMICS LABORATORY (CME-7925776)*; 12 MONTHS $11,300

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

ANDREWS, JOHN F; *COMPUTER CONTROL OF THE ACTIVATED SLUDGE PROCESS (CME-7926491)*; 12 MONTHS $55,348

UTAH

UNIVERSITY OF UTAH

SCHAMBER, DAVID R; *RESEARCH INITIATION – THE NUMERICAL SIMULATION OF TURBULENT FLOWS BY FINITE ELEMENTS (CME-8006743)*; 24 MONTHS $39,947

VIRGINIA

OLD DOMINION UNIVERSITY

KUHLMAN, JOHN M; *EXPERIMENTAL INVESTIGATIONS OF TURBULENCE FIELD OF A LABORATORY MODEL THERMAL PLUME (CME-7900815 A01)*; 12 MONTHS $29,734

VIRGINIA POLYTECHNIC INSTITUTE

SHERRARD, JOSEPH H; *EFFECT OF NICKEL ON THE KINETICS AND STOICHIOMETRY OF COMPLETELY MIXED ACTIVATED SLUDGE (CME-7902881)*; 24 MONTHS $53,467

PLAUT, RAYMOND H; *STABILITY OF STRUCTURES UNDER GENERAL LOADING CONDITIONS (CME-7910781)*; 12 MONTHS $40,098

WASHINGTON

UNIVERSITY OF WASHINGTON

NIHAN, NANCY L; *A PROCEDURE FOR ESTIMATING FREEWAY ORIGIN-DESTINATION MATRICES (CME-7918297)*; 12 MONTHS $35,614

WELCH, EUGENE B; *VELOCITY RELATED CRITICAL PHOSPHORUS CONCENTRATIONS IN FLOWING WATER (CME-7918514)*; 24 MONTHS $70,927

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

BEAUFAIT, FRED W; *DIGITAL DRUM PLOTTER FOR CE RESEARCH GRAPHICS LABORATORY (CME-8014998)*; 12 MONTHS $18,400

ZAGAJESKI, STAN W; *AUTOMATED DESIGN OF MOMENT RESISTING FRAME STRUCTURES (CME-8003867)*; 12 MONTHS $7,176

WISCONSIN

UNIVERSITY OF WISCONSIN-MILWAUKEE

LAI, ROBERT Y; *SELECTIVE WITHDRAWAL OF WATER FROM DENSITY STRATIFIED RESERVOIRS (CME-7909073 A02)*; 6 MONTHS $12,786

MECHANICAL SCIENCES AND ENGINEERING

ARIZONA

ARIZONA STATE UNIVERSITY

NEITZEL, G P; *RESEARCH INITIATION - HYDRODYNAMIC STABILITY OF DECELERATING SWIRL-FLOWS (CME-8006396)*; 24 MONTHS $40,000

LIMBERT, DOUGLAS A; *RESEARCH INITIATION - THE FEASIBILITY OF ACTIVE MAGNETIC BEARINGS TO REDUCE SYNCHRONOUS WHIRL RESONANCES IN ROTOR DYNAMIC SYSTEMS (CME-8006769)*; 24 MONTHS $40,000

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

KNAUSS, WOLFGANG G; *FUNDAMENTAL EXPERIMENTS IN DYNAMIC FRACTURE (CME-7710634 A02)*; 12 MONTHS $55,000

WU, THEODORE Y; *BIOPHYSICAL FLUID MECHANICS (CME-7711234 A05)*; 12 MONTHS $85,500

COLES, DONALD, AND ROSHKO, ANATOL; *LARGE EDDIES IN TURBULENT SHEAR FLOW (CME-7733541 A02)*; 12 MONTHS $101,800

STURTEVANT, BRADFORD; *PROPAGATION OF SHOCK WAVES IN RANDOM MEDIA (CME-7822689 A01)*; 12 MONTHS $59,920

SABERSKY, ROLF H, BRENNEN, CHRISTOPH E, GROSS, L H, AND HAGERTY, R O; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH PROGRAM: FLOW AND HEAT TRANSFER IN GRANULAR MEDIA (CME-7915139*)*; 12 MONTHS $57,516

LEAL, L G; *FLUID MECHANICS OF BUBBLES, DROPS AND RIGID PARTICLES (CME-8003485)*; 12 MONTHS $107,270

DYNAMICS TECHNOLOGY INC

PETERSEN, ROBERT A, AND CHEN, C PHILIP; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: PARTICLE MOTION IN A TURBULENT BOUNDARY LAYER (CME-8003427*)*; 12 MONTHS $15,417

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION-AMES RESEARCH CENTER

CHAPMAN, GARY T; *FOURTH INTERNATIONAL CONFERENCE ON PHOTON CORRELATION TECHNIQUES IN FLUID MECHANICS; STANFORD UNIVERSITY; AUGUST 25-27, 1980 (CME-8016517)*; 12 MONTHS $10,000

NAVAL POSTGRADUATE SCHOOL

SARPKAYA, TURGUT; *HYDROELASTIC RESPONSE OF FLEXIBLE CYLINDERS IN HARMONIC FLOW (CME-7924584 A03)*; 13 MONTHS $33,000

SRI INTERNATIONAL

GUPTA, Y M; *DEVELOPMENT OF A MODEL FOR SHEAR CRACKING IN BRITTLE MATERIALS (CME-7923534 A01)*; 12 MONTHS $76,055

STANFORD UNIVERSITY

JOHNSTON, JAMES P; *STRUCTURE OF REATTACHING TURBULENT SHEAR LAYERS (CME-7902248 A01)*; 12 MONTHS $55,627

VAN DYKE, MILTON D; *FLOW CALCULATION BY COMPUTER EXTENSION AND IMPROVEMENT OF PERTURBATION SERIES (CME-7924412 A01)*; 12 MONTHS $40,167

STREET, ROBERT L; *HEAT TRANSFER AT A MOBILE BOUNDARY (CME-7901176 A01)*; 12 MONTHS $53,085

ROTH, BERNARD; *CLASSIFICATION AND APPROXIMATION OF MOTIONS AND DISPLACEMENTS (CME-7910913)*; 24 MONTHS $130,000

REYNOLDS, WILLIAM C; *FUNDAMENTAL STUDIES OF UNSTEADY TURBULENT BOUNDARY LAYERS (CME-7921564)*; 12 MONTHS $59,689

NELSON, DREW V; *RESEARCH INITIATION - INVESTIGATION OF MULTIAXIAL FATIGUE (CME-8006692*)*; 24 MONTHS $6,000

UNIVERSITY OF CALIFORNIA, BERKELEY

TALBOT, LAWRENCE, AND BERGER, STANLEY A; *FLOW THROUGH HEART VALVES AND LARGE VESSELS (CME-7723934 A02)*; 12 MONTHS $79,505

CARROLL, MICHAEL M; *FORMULATION OF A CONTINUUM THEORY FOR DUCTILE POROUS MATERIALS (CME-7811772 A01)*; 24 MONTHS $1,297

TIEN, CHANG-LIN; *HEAT TRANSFER THROUGH POROUS INSULATION (CME-7813222 A01)*; 12 MONTHS $52,631

HURLBUT, FRANKLIN C, AND TALBOT, LAWRENCE; *GAS DYNAMICAL ISOTOPE SEPARATION IN THE OPPOSED JET CONFIGURATION (CME-7901139 A01)*; 12 MONTHS $42,342

MCCARTHY, GAIL K; *ENERGY TRANSPORT IN HYDROPONIC POROUS SYSTEMS (CME-7918085)*; 12 MONTHS $35,547

WEBSTER, WILLIAM C, AND WEHAUSEN, JOHN V; *HYDRODYNAMICS OF DEFORMABLE BODIES (CME-7921344)*; 12 MONTHS $50,028

UNIVERSITY OF CALIFORNIA, DAVIS

BAUGHN, JAMES W, HOFFMAN, M A, AND LAUNDER, B E; *TURBULENT HEAT TRANSPORT IN CIRCULAR DUCTS WITH CIRCUMFERENTIALLY VARYING HEAT FLUX (CME-7727613 A01)*; 12 MONTHS $53,419

GEIDT, WARREN J; *THERMAL AND DYNAMIC CHARACTERISTICS OF HORIZONTAL ELECTRON BEAM WELDING (CME-7911288)*; 24 MONTHS $69,140

WHITAKER, STEPHEN; *RADIANT ENERGY TRANSPORT IN POROUS MEDIA (CME-7911341)*; 24 MONTHS $67,248

UNIVERSITY OF CALIFORNIA, LOS ANGELES

GODDARD, JOE D, AND CHANG, WENJI V; *NON-LINEAR RHEOLOGY OF CONCENTRATED PARTICLE DISPERSIONS (CME-7706459 A02)*; 12 MONTHS $53,000

DHIR, V K; *VAPOR FILM DYNAMICS DURING SUBCOOLED BOILING (CME-7913258)*; 24 MONTHS $106,399

FREDERKING, T H; *DYNAMIC QUENCH PHENOMENA IN LIQUID HELIUM (CME-7915009)*; 24 MONTHS $68,000

DUBOWSKY, STEVEN; *THEORETICAL AND EXPERIMENTAL STUDY OF THE DYNAMIC MODELLING OF HIGH SPEED MACHINE SYSTEMS (CME-8006296)*; 12 MONTHS $49,626

UNIVERSITY OF CALIFORNIA, SAN DIEGO

FUNG, Y C; *CARDIO-PULMONARY DYNAMICS (CME-7519401 A04)*; 12 MONTHS $[illegible]

MILES, JOHN W; *GEOPHYSICAL FLUID DYNAMICS (OCE-7714005 A01*)*; 12 MONTHS $[illegible],000

LIBBY, PAUL A; *STUDIES OF FREE SHEAR TURBULENCE INVOLVING MEASUREMENTS OF PASSIVE SCALARS AND PRESSURE FLUCTUATIONS (CME-7815718 A01)*; 12 MONTHS $60,043

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

MARSCHALL, EKKEHARD; *HEAT AND MASS TRANSFER DURING LIQUID DROP FORMATION AND RELEASE (CME-7918399)*; 24 MONTHS $44,535

UNIVERSITY OF SOUTHERN CALIFORNIA

CHENG, HSIEN K; *THEORETICAL AND EXPERIMENTAL STUDIES OF FLOW STRUCTURE AND INTERIAL-WAVE PATTERNS IN A DEEP ROTATING CONTAINER (CME-7929075 A01)*; 12 MONTHS $90,356

LAUFER, JOHN; *AN ACOUSTIC SOURCE MODEL OF A TURBULENT JET (CME-7826296)*; 24 MONTHS $120,027

BROWAND, FREDERICK K; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: PARTICLE MOTION IN A TURBULENT BOUNDARY LAYER (CME-7910730*)*; 12 MONTHS $43,296

HUERRE, PATRICK; *NONLINEAR INTERACTIONS IN FREE SHEAR LAYERS AND JETS (CME-7916163)*; 24 MONTHS $69,503

COLORADO

COLORADO SCHOOL OF MINES

JONES, MICHAEL C; *SPECIALIZED RESEARCH EQUIPMENT - DIGITAL STORAGE OSCILLOSCOPE (CME-8015931)*; 12 MONTHS $5,000

UNIVERSITY OF COLORADO AT BOULDER

DATTA, SUBHENDU K, AND CHRISTOPHER, ROBERT A; *DIFFRACTION OF ELASTIC WAVES IN A HALF-SPACE (CME-7824179)*; 24 MONTHS $89,421

CERNOCKY, EDWARD P; *RESEARCH INITIATION -- A STUDY AND COMPARISON OF RATEDEPENDENT CONSTITUTIVE THEORIES OF METAL BEHAVIOR IN ONEDIMENSIONAL WAVE PROPAGATION AND IN HOMOGENEOUS DEFORMATIONS (CME-8006771)*; 24 MONTHS $39,075

CONNECTICUT

YALE UNIVERSITY

PHILLIPS, ARIS; *MECHANICS OF PERMANENT DEFORMATIONS OF MATERIALS (CME-7829078 A01)*; 12 MONTHS $69,500

MAEWAL, AKHILESH; *MODELING OF COMPOSITE MATERIALS (CME-8001022)*; 18 MONTHS $35,303

DELAWARE

UNIVERSITY OF DELAWARE

CHOU, TSU-WEI, AND TAYA, MINORU; *STIFFNESS AND STRENGTH PREDICTIONS OF SHORT-FIBER COMPOSITES BASED UPON TRANSFORMATION STRAIN AND 3-D J-INTEGRAL ANALYSES (CME-7918549)*; 24 MONTHS $117,099

KERR, ARNOLD D; *FUNDAMENTAL PROBLEMS IN RAILROAD TRACK MECHANICS (CME-8001928*)*; 12 MONTHS $21,907

DISTRICT OF COLUMBIA

AMERICAN SOCIETY FOR ENGINEERING EDUCATION

BAUMANN, DWIGHT M; *A NATIONAL CONFERENCE FOR DEANS OF BUSINESS AND ENGINEERING SCHOOLS (ISP-8090870*)*; 6 MONTHS $21,750

CATHOLIC UNIVERSITY OF AMERICA

VAISHNAV, RAMESH N; *LOCAL AND GLOBAL NONLINEAR VISCOELASTIC PROPERTIES OF THE VASCULAR TISSUE (CME-7908911 A02)*; 12 MONTHS $57,664

VON-KERCZEK, CHRISTIAN, AND CASARELLA, MARIO; *INSTABILITY OF OSCILLATORY SHEAR FLOWS (CME-7900929)*; 24 MONTHS $40,548

NATIONAL ACADEMY OF SCIENCES

DOW, RICHARD Y; *FIFTEENTH INTERNATIONAL CONGRESS OF THEORETICAL AND APPLIED MECHANICS - TORONTO, CANADA, AUGUST 17-25, 1980 (CME-7996308*)*; 12 MONTHS $10,000

FLORIDA

FLORIDA STATE UNIVERSITY

TAM, C K; *STUDY OF RECEPTIVITY AND TRANSITION OF LAMINAR FLOWS IN A NATURAL DISTURBANCE ENVIRONMENT (CME-7906132 A01)*; 24 MONTHS $62,900

UNIVERSITY OF FLORIDA

HSIEH, CHUNG K; *A QUANTITIVE PREDICTION OF CAVITIES USING AN INFRARED SCANNING TECHNIQUE (CME-7913834)*; 22 MONTHS $68,729

UNIVERSITY OF MIAMI

VEZIROGLU, T N; *TWO-PHASE FLOW INSTABILITIES (CME-7909018)*; 24 MONTHS $129,692

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

MARRIS, ANDREW W; *STUDIES ON CONTROLLABLE MOTIONS (CME-7830240)*; 24 MONTHS $61,828

COLWELL, GENE T; *PARAMETRIC STUDY OF HEAT PIPE STARTUP FROM THE SUPERCRITICAL STATE (CME-7906416)*; 12 MONTHS $20,062

GIDDENS, DON P; *ROLE OF FLUID MECHANICS IN THE GENESIS, PROLIFERATION AND DETECTION OF ATHEROSCLEROSIS (CME-7911551)*; 12 MONTHS $121,350

HAWAII

UNIVERSITY OF HAWAII-MANOA

CHENG, PING; *FUNDAMENTAL STUDIES OF HEAT AND MASS TRANSFER IN POROUS MEDIA (CME-7717537 A01)*; 12 MONTHS $61,067

ILLINOIS

DEERE & COMPANY

GALLIART, DALE R; *RESEARCH INITIATION - INVESTIGATION OF MULTIAXIAL FATIGUE (CME-8014701*)*; 24 MONTHS $5,527

ILLINOIS INSTITUTE OF TECHNOLOGY

BERNSTEIN, BARRY; *THERMODYNAMICS OF DEFORMABLE MATERIALS WITH MICROSTRUCTURE A NESTED MODEL (CME-7916973)*; 24 MONTHS $62,770

TAO, L N; *STUDIES OF MOVING BOUNDARY PROBLEMS (CME-7831350*)*; 12 MONTHS $45,348

NORTHWESTERN UNIVERSITY

LAW, CHUNG K; *IGNITION AND COMBUSTION OF FUEL SPRAY JETS (CME-7820013 A01)*; 12 MONTHS $34,000

KEER, LEON M, AND MURA, TOSHIO; *NON-HERTZIAN CONTACT STRESS ANALYSIS (CME-7910915)*; 24 MONTHS $105,012

DAVIS, STEPHEN H; *INTERFACIAL DYNAMICS (CME-7911170)*; 12 MONTHS $54,005

CHENG, HERBERT S, KEER, LEON M, AND MURA, TOSHIO; *UNIVERSITY/INDUSTRY COOPERATIVE RESEARCH: AN ANALYTICAL MODEL FOR PREDICTION OF SURFACE PITTING LIFE IN SPUR AND HELICAL GEARS (CME-7915951*)*; 12 MONTHS $23,855

NEMAT-NASSER, S; *SYMPOSIUM ON THREE-DIMENSIONAL CONSTITUTIVE RELATIONSHIPS AND DUCTILE FRACTURE; ECOLE POLYTECHNIQUE, PALAISEAU, FRANCE; JUNE 2-5, 1980 (CME-8001071)*; 12 MONTHS $6,450

KEER, LEON M, AND NEMAT-NASSER, S; *THEORY OF STABILITY APPLIED TO ELASTIC BODIES WITH MOVING BOUNDARIES (CME-8006965)*; 18 MONTHS $117,904

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

WU, CHIEN-HEN G; *WRINKLES, SUTURES AND INFLATABLE STRUCTURES (CME-7905462)*; 24 MONTHS $74,980

CHOW, JOSEPH C, AND SIMON, H A; *CURVED TUBE HEAT TRANSFER (CME-7919073)*; 24 MONTHS $114,910

KRAJCINOVIC, DUSAN; *THE DISTRIBUTED DAMAGE THEORY AND ITS APPLICATION TO THE PROBLEMS OF CREEP AND FATIGUE (CME-7920554)*; 24 MONTHS $76,869

GUPTA, KRISHNA C; *APPLICATIONS OF APPROXIMATION THEORY TO MECHANISM SYNTHESIS (CME-7905193)*; 24 MONTHS $55,580

UNIVERSITY OF ILLINOIS AT URBANA

YEN, SHEE-MANG; *NUMERICAL STUDIES OF FREE SURFACE PROBLEMS (CME-7720430 A01)*; 6 MONTHS $5,599

KRIER, HERMAN, AND BUCKIUS, RICHARD O; *A COMPREHENSIVE MODEL FOR COAL DUST-AIR FLAMES: AN ANALYSIS OF TWO-PHASE REACTIVE FLUID MECHANICS WITH RADIATIVE TRANSPORT (CME-7726973 A09)*; 12 MONTHS $36,414

CHEN, MICHAEL M; *INFLUENCE OF MICROCONVECTION ON HEAT AND MASS TRANSFER IN NON-DILUTE DISPERSE TWO-PHASE FLOWS (CME-7815495 A01)*; 12 MONTHS $45,883

WESTWATER, JAMES W; *THE QUENCHING METHOD FOR DETERMINING BOILING MEASUREMENTS (CME-7919004 A01)*; 12 MONTHS $50,000

LECKIE, F A, AND SOCIE, D F; *CONTINUUM DAMAGE MECHANICS, FRACTURE MECHANICS, AND CONSTITUTIVE EQUATIONS AT ELEVATED TEMPERATURES (CME-7933549 A01)*; 12 MONTHS $79,996

MCMEEKING, ROBERT M; *ANALYTICAL STUDIES OF THE MICROMECHANISMS OF DUCTILE RUPTURE (CME-7918408)*; 24 MONTHS $53,223

ROY, RAMENDRA P; *ON THE STATISTICAL NATURE OF DIABATIC ONE-COMPONENT TWO-PHASE FLOW:AN EXPERIMENTAL APPROACH (CME-7920146)*; 24 MONTHS $75,896

MILLER, NORMAN R; *ACQUISITION OF A MICROCOMPUTER DEVELOPMENT SYSTEM (CME-8014434)*; 12 MONTHS $20,515

INDIANA

PURDUE UNIVERSITY

TAYLOR, RAYMOND E; *DIRECT HEATING METHODS IN HEAT TRANSFER (CME-7716200 A01)*; 24 MONTHS $69,977

TAYLOR, RAYMOND E; *RESEARCH EQUIPMENT FOR THERMOPHYSICAL PROPERTIES RESEARCH LABORATORY (CME-7919012)*; 12 MONTHS $11,140

CIPRA, RAYMOND J; *RESEARCH INITIATION - INVESTIGATION OF THE DYNAMIC SIMULATION OF LARGE NONLINEAR MECHANICAL SYSTEMS (CME-8006763)*; 24 MONTHS $29,964

UNIVERSITY OF NOTRE DAME

LLOYD, JOHN R, AND YANG, K-T; *RADIATION CONVECTION INTERACTION IN HEAT TRANSFER (CME-7916893)*; 12 MONTHS $75,000

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

KUEHN, THOMAS H; *ENHANCEMENT OF HEAT TRANSFER BY NATURAL CONVECTION FROM ARRAYS OF HORIZONTAL CYLINDERS IMMERSED IN LIQUIDS (CME-8004498)*; 24 MONTHS $85,814

UNIVERSITY OF IOWA

SMITH, THEODORE F; *BIDIRECTIONAL REFLECTANCE OF ONE-DIMENSIONALLY ROUGH SURFACES (CME-7911514)*; 12 MONTHS $40,700

KANSAS

KANSAS STATE UNIVERSITY

AZER, NAIM Z; *AUGMENTATION OF CONDENSATION HEAT TRANSFER (CME-7916071 A01)*; 12 MONTHS $28,257

KENTUCKY

UNIVERSITY OF KENTUCKY

DRNEVICH, VINCENT P; *ENGINEERING SPECIALIZED RESEARCH EQUIPMENT: A DUAL CHANNEL SIGNAL ANALYZER FOR DYNAMIC MEASUREMENTS IN MECHANICS RELATED RESEARCH (CME-8014113)*; 12 MONTHS $14,200

LOUISIANA

TULANE UNIVERSITY

COWIN, STEPHEN C; *AN ANALYTICAL AND EXPERIMENTAL STUDY OF LONG TERM BONE REMODELING (CME-7937858 A01)*; 13 MONTHS $70,334

MARYLAND

JOHNS HOPKINS UNIVERSITY

TRUESDELL, CLIFFORD A; *RATIONAL THERMOMECHANICS OF MATERIALS (MCS-7800296 A02*)*; 12 MONTHS $36,236

ERICKSEN, J L; *RESEARCH ON NONLINEAR THEORIES OF SOLIDS (CME-7911112)*; 12 MONTHS $60,150

NATIONAL BUREAU OF STANDARDS

REED, RICHARD P, AND SMITH, JOHN H; *THE ECONOMIC ASPECTS OF FRACTURE IN THE U.S. ECONOMY (DMR-8011179*)*; 12 MONTHS $10,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

WALLACE, JAMES M; *AN INVESTIGATION OF BOUNDED TURBULENT SHEAR FLOWS INCORPORATING THEIR VORTICITY STRUCTURE (CME-7919855)*; 12 MONTHS $52,431

MASSACHUSETTS

HARVARD UNIVERSITY

ABERNATHY, FREDERICK H; *INVESTIGATION OF MIXING MECHANISMS IN TURBULENT BOUNDARY LAYERS USING DRAG REDUCING LIQUIDS (CME-7905960 A01)*; 6 MONTHS $10,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ROHSENOW, WARREN M; *POST CRITICAL HEAT FLUX HEAT TRANSFER (CME-7603564 A02)*; 24 MONTHS $130,969

NEWMAN, J N; *STUDIES OF SHIP HYDRODYNAMICS AND WATER WAVES (CME-7717617 A06)*; 12 MONTHS $146,309

KAMM, ROGER D, AND SHAPIRO, ARCHER H; *A BROAD PROGRAM OF RESEARCH ON FLEXIBLE -WALLED TUBES (CME-7913099)*; 12 MONTHS $50,000

PARKS, DAVID M; *ENERGY PERTURBATION METHODS IN FINITE ELEMENT NOTCH AND CRACK STRESS ANALYSIS (CME-7913931)*; 12 MONTHS $47,080

POPE, STEPHEN B; *CALCULATION OF TURBULENT RECIRCULATING FLOWS (CME-7914394)*; 24 MONTHS $88,848

WIDNALL, SHEILA E; *STRUCTURE AND STABILITY OF STRADY CONFIGURATION OF VORTICITY (CME-7916077)*; 24 MONTHS $115,676

DEWEY, C F; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: LASER ANEMOMETER SYSTEM (CME-7915773)*; 12 MONTHS $30,955

GLICKSMAN, LEON R; *THE INFLUENCE OF BED FLUID DYNAMICS ON THE HEAT TRANSFER TO SURFACES IMMERSED IN A FLUIDIZED BED: BED SCALE UP, PARTICLE SHAPE, AND PARTICLE SIZE DISTRIBUTION (CME-8006474)*; 24 MONTHS $100,993

UNIVERSITY OF MASSACHUSETTS, AMHERST

DYM, CLIVE L; *ACOUSTIC OPTIMIZATION OF SANDWICH PARTITIONS (CME-8007550)*; 24 MONTHS $60,270

MICHIGAN

MICHIGAN STATE UNIVERSITY

BECK, JAMES V; *TRANSIENT SURFACE ELEMENT METHOD IN HEAT CONDUCTION (CME-7909109)*; 24 MONTHS $70,455

THOME, JOHN R; *RESEARCH INITIATION -- BOILING SITE DENSITIES IN BINARY LIQUID MIXTURES (CME-8006736)*; 24 MONTHS $39,980

BECK, JAMES V; *SPECIALIZED RESEARCH EQUIPMENT: MICROCOMPUTER FOR HEAT TRANSFER RESEARCH (CME-8014518)*; 11 MONTHS $6,500

OAKLAND UNIVERSITY

HUNG, YAU Y; *FURTHER INVESTIGATION OF IMAGE-SHEARING CAMERA FOR STRAIN MEASUREMENTS DEVELOPMENT (CME-7909697)*; 24 MONTHS $113,279

UNIVERSITY OF MICHIGAN

HAMMITT, FREDERICK G; *WET STEAM FLOWS INCLUDING LIQUID BEHAVIOR (CME-7911315 A05)*; 24 MONTHS $89,542

PAPALAMBROS, PANOS; *RESEARCH INITIATION - OPTIMIZATION BY MONOTONICITY ANALYSIS (CME-8006937)*; 24 MONTHS $40,000

DRISCOLL, JAMES F; *SPECIALIZED RESEARCH EQUIPMENT: EQUIPMENT FOR THE STUDY OF FUNDAMENTAL ASPECTS OF FUEL SPRAY COMBUSTION (CME-8012949)*; 12 MONTHS $15,880

WAYNE STATE UNIVERSITY

THOMPSON, B S, AND AKAY, ADNAN; *AN INVESTIGATION OF THE VIBRATORY AND ACOUSTICAL CHARACTERISTICS OF FLEXIBLE MECHANICAL SYSTEMS ON VIBRATING FOUNDATIONS (CME-7911643)*; 13 MONTHS $36,491

MINNESOTA

UNIVERSITY OF MINNESOTA-INSTITUTE OF TECHNOLOGY

SCRIVEN, L E; *CAPILLARY HYDRODYNAMICS AND COATING FLOWS (CME-7708313 A02)*; 7 MONTHS $92,315

FOSDICK, ROGER L; *INVESTIGATIONS IN THERMOMECHANICS ON THE SHAPE MEMORY PHENOMENON (CME-7912391)*; 20 MONTHS $69,455

UNIVERSITY OF MINNESOTA

ECKERT, ERNST R; *COMBINED HEAT AND MASS TRANSFER WITH PHASE CHANGE IN POROUS MEDIA (CME-7707796 A02)*; 24 MONTHS $65,666

GOLDSTEIN, RICHARD J; *HEAT TRANSPORT BY THERMAL CONVECTION (CME-7721626 A02)*; 12 MONTHS $49,856

FOSDICK, ROGER L; *INVESTIGATIONS IN CONTINUUM MECHANICS (CME-7708016 A06)*; 12 MONTHS $67,998

SERRIN, JAMES B; *PHENOMENOLOGICAL THERMODYNAMICS (MCS-7903535 A01*)*; 12 MONTHS $11,662

JOSEPH, DANIEL D; *STUDIES IN THE THEORY OF BIFURCATION, VISCOELASTIC FLUIDS, AND BIORTHOGONAL EIGENFUNCTION EXPANSIONS (CME-7908597)*; 18 MONTHS $80,000

SETHNA, P R; *STUDY OF NONLINEAR DYNAMICAL SYSTEMS (CME-7911351*)*; 12 MONTHS $36,791

LAMBERT, ROBERT F; *ACOUSTICAL STRUCTURE OF HIGHLY POROUS FIBROUS ELASTIC MATERIALS (CME-8011362)*; 24 MONTHS $102,111

UNIVERSITY OF MINNESOTA AT SAINT PAUL

MACOSKO, C W; *LUBRICATED STAGNATION FLOW FOR STUDYING STEADY EXTENSION (CME-7907045*)*; 24 MONTHS $30,000

MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY

POWE, RALPH E; *RESEARCH WORKSHOP ON THERMAL DIAGNOSTICS FOR HIGH TEMPERATURE FLOWS - MAY 7-8, 1980 (CME-7918512)*; 12 MONTHS $16,135

MISSOURI

UNIVERSITY OF MISSOURI, ROLLA

CHEN, TA-SHEN, AND ARMALY, BASSEM F; *TURBULENT HEAT TRANSFER IN MIXED FORCED AND FREE CONVECTION FLOWS (CME-7916459)*; 24 MONTHS $104,196

REED, X B; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: LASER ANEMOMETER AND LASER-EXCITED PHOTOCHROMIC SYSTEMS (CME-7905785*)*; 12 MONTHS $30,000

MOUTSOGLOU, A; *RESEARCH INITIATION - HEAT TRANSFER IN BOUNDARY LAYERS ADJACENT TO MOVING, NONISOTHERMAL CONTINUOUS SURFACES (CME-8005682)*; 24 MONTHS $39,902

WASHINGTON UNIVERSITY

PETERS, DAVID A; *DYNAMICS OF AEROELASTIC BODIES WITH ROTATING COMPONENTS IN THE ABSENCE OF POLAR SYMMETRY (CME-7906504)*; 24 MONTHS $61,407

ZAHALAK, GEORGE I; *THE MECHANICAL BEHAVIOR OF HUMAN SKELETAL MUSCLE IN VIVO (CME-7920332)*; 12 MONTHS $100,355

NEW JERSEY

PRINCETON UNIVERSITY

HAMA, FRANCIS R; *INCOMPRESSIBLE AXISYMMETRIC WAKES (CME-7916177 A01)*; 5 MONTHS $18,000

DOWELL, EARL H; *DYNAMICS OF NONLINEAR AND NONCONSERVATIVE SYSTEMS USING COMPONENT MODE ANALYSIS (CME-7916953)*; 24 MONTHS $64,656

RUTGERS UNIVERSITY-BUSCH CAMPUS

MULLER, MICHAEL R; *RESEARCH INITIATION -- AN EXPERIMENTAL INVESTIGATION OF INTERNAL WAVE INTERACTIONS IN A THREE-LAYER STRATIFIED FLUID (CME-8006735)*; 24 MONTHS $39,960

LEE, TING W; *DESIGN OF HIGH-SPEED MECHANISMS (CME-8006753)*; 12 MONTHS $31,109

NEW MEXICO

UNIVERSITY OF NEW MEXICO

STARR, G P; *RESEARCH INITIATION - INVESTIGATION OF SUPERVISORY CONTROL OF MANIPULATION (CME-8006350)*; 24 MONTHS $40,000

NEW YORK

CITY COLLEGE

JIJI, LATIF M; *TURBULENT JET-BOUNDARY INTERACTION FOR SLOTS AND RECTANGULAR HEATED DISCHARGES (CME-7810004 A01)*; 12 MONTHS $36,145

WEINBAUM, SHELDON S, AND PFEFFER, ROBERT; *TRANSPORT OF MACROMOLECULES ACROSS ARTERIAL WALL AND LOW REYNOLDS NUMBER FLOW IN MULTIPARTICLE SYSTEMS (CPE-7822101 A01*)*; 12 MONTHS $25,485

COLUMBIA UNIVERSITY

FREUDENSTEIN, FERDINAND; *DETERMINATION AND MINIMIZATION OF FORCES IN STATICALLY INDETERMINATE, HIGH-SPEED LINKAGE MECHANISMS (CME-7905477 A01)*; 12 MONTHS $30,568

CORNELL UNIVERSITY

LEIBOVICH, SIDNEY; *NONLINEAR STABILITY THEORY AND THE LARGE AMPLITUDE TRANSITIONS OF CONCENTRATED VORTEX FLOWS (CME-7919817)*; 12 MONTHS $55,000

MOORE, FRANKLIN K; *AERODYNAMIC PROBLEMS OF LARGE SCALE COOLING DEVICES (CME-7996404)*; 12 MONTHS $60,257

PITT, RONALD E; *RESEARCH INITIATION: ACCUMULATIVE MECHANICAL DAMAGE TO AGRICULTURAL PRODUCTS (CME-8006754)*; 24 MONTHS $39,527

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

HART, EDWARD W; *TESTING OF METALS UNDER MULTIAXIAL LOADING (CME-7833544 A01)*; 12 MONTHS $63,792

RENSSELAER POLYTECHNIC INSTITUTE

WAYNER, PETER C; *EXPERIMENTAL STUDY OF EVAPORATIVE HEAT TRANSFER IN THE INTERLINE REGION AND ADJACENT MENISCUS (CME-7939039 A01)*; 12 MONTHS $40,000

KREMPL, ERHARD; *INELASTIC CONSTITUTIVE EQUATIONS WITH MEASURES OF INTERNAL CHANGE (CME-7909156)*; 12 MONTHS $83,811

MOW, VAN C, AND LAI, W M; *BIOMECHANICS OF DIARTHRODIAL JOINTS (CME-7919524)*; 12 MONTHS $107,619

DUFFY, ROBERT E, AND NAGAMATSU, HENRY T; *INVESTIGATIONS OF THE EFFECTS OF PRESSURE GRADIENT, TEMPERATURE, AND WALL TEMPERATURE RATIO ON THE HEAT TRANSFER OVER BLUNT AND STREAMLINED BODIES (CME-8006906)*; 24 MONTHS $61,000

STATE UNIVERSITY AT BUFFALO

GEBHART, BENJAMIN; *BUOYANCY INDUCED TRANSPORT IN COLD WATER AND WITH MULTIPLE BUOYANCY COMPONENTS (CME-7721641 A01)*; 24 MONTHS $93,372

TAULBEE, DALE B, AND GEORGE, WILLIAM K; *FLUID MECHANICS OF THE HUMAN BRONCHIAL TUBE (CME-7902598)*; 24 MONTHS $140,921

CHANG, YAN-PO; *ANALYTICAL SOLUTION OF HEAT CONDUCTION IN ANISOTROPIC MEDIA (CME-7918577)*; 24 MONTHS $57,530

STATE UNIVERSITY AT STONY BROOK

CESS, ROBERT D; *RADIATIVE ENERGY TRANSFER IN GASES (CME-7909065)*; 24 MONTHS $79,756

CHIANG, FU-PEN; *SPECKLE AND MOIRE METHODS FOR EXPERIMENTAL STRESS ANALYSIS (CME-8009047)*; 12 MONTHS $64,033

OHIO

CASE WESTERN RESERVE UNIVERSITY

DYBBS, ALEXANDER; *VELOCITY MEASUREMENTS IN POROUS MEDIA (CME-7913339)*; 12 MONTHS $86,910

OHIO STATE UNIVERSITY

BRODKEY, ROBERT S; *STEREOSCOPIC VISUAL AND ANEMOMETRY STUDIES OF COHERENT MOTIONS IN TURBULENT SHEAR FLOWS (CME-7718334 A01)*; 12 MONTHS $64,610

TOUGH, J T; *SUPERFLUID TURBULENCE (DMR-7925089*)*; 12 MONTHS $10,000

WALDRON, KENNETH J; *SOLUTION PARTITIONING IN SPATIAL MECHANISM SYNTHESIS (CME-8009189*)*; 11 MONTHS $15,872

UNIVERSITY OF CINCINNATI

VALANIS, KIRK C; *APPLICATION OF THE ENDOCHRONIC THEORY TO THE THERMOMECHANICAL BEHAVIOR OF METALS (CME-7906343 A01)*; 12 MONTHS $68,368

CRESPO DA SILVA, MARCELO; *INVESTIGATIONS IN NON-LINEAR DYNAMICS OF SLENDER MEMBER CONTINUOUS SYSTEMS (CME-7914556)*; 24 MONTHS $68,462

OREGON

OREGON STATE UNIVERSITY

PEDDICORD, KENNETH L; *HEAT CONDUCTION IN ECCENTRIC ANNULI (CME-8001077)*; 24 MONTHS $72,811

UNIVERSITY OF OREGON - EUGENE

DONNELLY, RUSSELL J; *EXPERIMENTAL AND THEORETICAL RESEARCH IN FLUID MECHANICS (CME-7818405 A01)*; 12 MONTHS $56,958

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

HOLZER, ALEXANDER J; *A SYSTEMS APPROACH TO DYNAMIC CHARACTERIZATION OF MATERIALS (CME-7911073)*; 12 MONTHS $45,334

CARNEGIE-MELLON UNIVERSITY

MARKENSCOFF, XANTHIPPI; *DISLOCATION DYNAMICS: THE EQUATION OF MOTION OF A DISLOCATION, ELASTIC PRECURSOR DECAY, RELATED PROBLEMS (CME-8007766)*; 24 MONTHS $62,926

DREXEL UNIVERSITY

HARLOW, DAVID G; *RESEARCH INITIATION - A PROBABILISTIC MODEL FOR FIBROUS MATERIALS (CME-8006751)*; 24 MONTHS $40,000

HAVERFORD COLLEGE

GOLLUB, JERRY P; *STOCHASTIC FLOW AND NONLINEAR DYNAMICS (CME-7918150)*; 12 MONTHS $50,500

LEHIGH UNIVERSITY

SALATHE, ERIC P; *MICROCIRCULATORY FLOW: A STUDY OF FLUID MOVEMENT IN COMPLEX POROUS STRUCTURES (CME-7721544 A02)*; 6 MONTHS $7,295

ROCKWELL, D O; *IMPINGEMENT OF VORTICAL STRUCTURES ON EDGE-TYPE OBSTACLES (CME-7913163)*; 12 MONTHS $89,816

RIVLIN, RONALD S; *IUTAM SYMPOSIUM ON FINITE ELASTICITY TO BE HELD AT BETHLEHEM, PENNSYLVANIA, AUGUST 11-15, 1980 (CME-7916538*)*; 12 MONTHS $10,521

LEVY, EDWARD K; *HEAT TRANSFER IN ROTATING AND CURVED DUCTS (CME-7933751*)*; 12 MONTHS $34,353

PENNSYLVANIA STATE UNIVERSITY

GOODRICH, JERRY L; *RESEARCH INITIATION: METHODOLOGY FOR FLEXIBLE PARTS FEEDING SYSTEMS (CME-8006754)*; 24 MONTHS $40,000

RHODE ISLAND

BROWN UNIVERSITY

KARLSSON, STURE K; *WAVE BREAKDOWN IN STABLY STRATIFIED SHEAR FLOW; TWO COMPONENT LASER VELOCIMETERY (CME-7818516 A02)*; 6 MONTHS $4,000

DUFFY, J; *EFFECTS OF HIGH LOADING RATES AND TEMPERATURE ON FRACTURE INITIATION (CME-7707796 A02)*; 12 MONTHS $65,000

FREUND, LAMBERT B; *PLASTICITY EFFECTS IN DYNAMIC CRACK PROPAGATION (CME-7715548 A01)*; 24 MONTHS $92,716

CASWELL, BRUCE; *FINITE ELEMENT SIMULATION OF MEMORY FLUIDS (CME-7900721 A01)*; 12 MONTHS $50,250

LIU, JOSEPH T; *STUDIES OF SHEAR FLOW INSTABILITIES (CME-7933197 A01)*; 12 MONTHS $50,512

PIPKIN, ALLEN C; *MECHANICAL PROPERTIES OF SOLIDS AND LIQUIDS (MCS-7909399 A01*)*; 12 MONTHS $10,606

DUFFY, J; *THE MECHANICAL BEHAVIOR OF POLYCRYSTALLINE AND SINGLE CRYSTAL METALS BASED ON EXPERIMENTS INVOLVING INCREMENTS IN STRAIN RATE AND TEMPERATURE (CME-7953742)*; 12 MONTHS $85,770

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER; *1980 GORDON RESEARCH CONFERENCE ON BIOENGINEERING AND ORTHOPAEDIC SCIENCES; AUGUST 18-22, 1980; KIMBALL UNION ACADEMY, MERIDAN, NEW HAMPSHIRE (CME-7916133)*; 6 MONTHS $3,500

UNIVERSITY OF RHODE ISLAND

LESSMANN, RICHARD C, AND TEST, FREDERICK L; *FORCED CONVECTION HEAT TRANSFER FROM A TWO-DIMENSIONAL RECTANGULAR BLUFF BODY (CME-7916590)*; 24 MONTHS $92,326

DATSERIS, PHILIP; *MECHANICAL-DESIGN OPTIMIZATION BY MEANS OF HEURISTICS (CME-8006931)*; 24 MONTHS $54,794

TEXAS

TEXAS A & M UNIVERSITY

FLIPSE, JOHN E; *WORKSHOP ON DEEP OCEAN MINING RESEARCH REQUIREMENTS FOR THE 1980'S; COLLEGE STATION, TEXAS; MAY 16 - 18, 1980 (CME-7915785*)*; 12 MONTHS $2,500

TEXAS TECH UNIVERSITY

CARPER, HERBERT J; *CONVECTIVE HEAT TRANSFER OF IMPINGEMENT-COOLED ROTATING BODIES (CME-7918358)*; 24 MONTHS $101,585

UNIV OF TEXAS AT ARLINGTON

VON MALTZAHN, WOLF W; *RESEARCH INITIATION - ELASTIC PROPERTIES OF THE MEDIA AND ADVENTITIA OF CONDUIT ARTERIES (CME-8006448)*; 24 MONTHS $40,000

UNIV OF TEXAS AT AUSTIN

MIKSAD, RICHARD W; *EXPERIMENTS ON NON-LINEAR INTERACTIONS DURING THE TRANSITION TO TURBULENCE (CME-7900719 A01)*; 12 MONTHS $50,396

SWINNEY, HARRY L; *INSTABILITIES, TURBULENCE, AND CRITICAL PHENOMENA IN FLUID FLOWS (CME-7906545*)*; 12 MONTHS $65,945

BOURELL, DAVID L; *LABORATORY ROLLING MILL (CME-8014553)*; 12 MONTHS $27,000

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

HUSSAIN, AKM FAZLE; *STUDIES OF COHERENT STRUCTURES IN TURBULENT SHEAR FLOWS (CME-7922110 A01)*; 12 MONTHS $151,980

NEREM, ROBERT M; *UNSTEADY FLOW THROUGH COMPLICATED ARTERIAL GEOMETRIES (CME-8001701)*; 12 MONTHS $56,936

UTAH

UNIVERSITY OF UTAH

ROSENBERGER, FRANZ; *CRYSTAL GROWTH FROM VAPORS (DMR-7913158 A01*)*; 12 MONTHS $10,000

NUISMER, RALPH J; *A CONTINUUM MODEL FOR DAMAGE ACCUMULATION AND ULTIMATE FAILURE OF LAMINATED COMPOSITE MATERIALS (CME-7915197)*; 24 MONTHS $99,211

VIRGINIA

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

COOPER, RALPH D; *SYMPOSIUM ON VISCOUS DRAG REDUCTION, ATC, INC., VOUGHT CORPORATION, DALLAS, TEXAS, NOVEMBER 7-8, 1980 (CME-7914947)*; 12 MONTHS $4,000

COOPER, RALPH D; *SEVENTH INTERNATIONAL CONFERENCE ON NUMERICAL FLUID DYNAMICS, STANFORD UNIVERSITY, JUNE 23-27, 1980 (CME-8014474)*; 12 MONTHS $10,200

OLD DOMINION UNIVERSITY

LAKIN, WILLIAM D; *HIGHER MODES OF THE GRR-SOMMERFELD EQUATION FOR UNBOUNDED FLOWS (CME-7906897)*; 12 MONTHS $27,620

UNIVERSITY OF VIRGINIA

PILKEY, WALTER D; *INTERNATIONAL SYMPOSIUM ON INNOVATIVE NUMERICAL ANALYSIS IN APPLIED ENGINEERING AND SCIENCE, MONTREAL, CANADA, JUNE 16 - 20, 1980 (CME-7909267)*; 12 MONTHS $7,000

SIMMONDS, JAMES G; *CRACKS AND SEVERE MOTIONS OF THIN-WALLED, ELASTIC STRUCTURES (MCS-7907153*)*; 12 MONTHS $12,431

JOHNSON, GLEN E; *RESEARCH INITIATION - DEVELOPMENT OF MODEL-BASED DESIGN SYNTHESIS TECHNIQUE (CME-8006767)*; 24 MONTHS $40,000

VIRGINIA POLYTECHNIC INSTITUTE

REIFSNIDER, KENNETH L, AND STINCHCOMB, WAYNE W; *STIFFNESS METHODS FOR THE ANALYSIS OF DAMAGE DEVELOPMENT IN COMPOSITE LAMINATES (CME-7690813 A01)*; 24 MONTHS $100,915

HASSELMAN, D P, AND HELLER, ROBERT A; *INTERNATIONAL CONFERENCE ON THERMAL STRESSES IN MATERIALS AND STRUCTURES FOR SEVERE THERMAL ENVIRONMENTS, BLACKSBURG, VIRGINIA, MARCH 19 - 20, 1980 (CME-7914434*)*; 9 MONTHS $3,900

REIFSNIDER, KENNETH L, DUKE, J C, HENNEKE, EDMUND G, AND STINCHCOMB, WAYNE W; *SYMPOSIUM - MECHANICS OF NONDESTRUCTIVE TESTING, BLACKSBURG, VIRGINIA, SEPTEMBER 10-12, 1980 (CME-7919917)*; 12 MONTHS $5,150

SCHNECK, DANIEL J, AND HARSHBERGER, RICHARD; *SECOND MID-ATLANTIC CONFERENCE ON BIO-FLUID MECHANICS, MAY 5-7, 1980, VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY, BLACKSBURG, VIRGINIA (CME-7933561)*; 12 MONTHS $5,191

THOMASON, SAMUEL B; *RESEARCH INITIATION - AN EXPERIMENTAL INVESTIGATION OF INSTABILITY IN TURBULENT-FLOW FREEZING (CME-8006495)*; 24 MONTHS $39,965

JAASMA, DENNIS R; *RESEARCH INITIATION - SPECTROSCOPIC MEASUREMENT OF NITRIC OXIDE IN A DIFFUSION FLAME (CME-8006739)*; 24 MONTHS $39,977

WASHINGTON

UNIVERSITY OF WASHINGTON

KOBAYASHI, ALBERT S; *AN EXPERIMENTAL-NUMERICAL INVESTIGATION ON DYNAMIC DUCTILE FRACTURE CRITERION (CME-7950979)*; 24 MONTHS $120,340

GARBINI, JOSEPH L; *RESEARCH INITIATION: DETECTION OF INTERNAL DEFECTS IN TREES AND LOGS BY MEANS OF HOMOMORPHIC PROCESSING OF SCATTERED ULTRASONIC SIGNALS (CME-8007190)*; 24 MONTHS $39,984

WASHINGTON STATE UNIVERSITY

PLUMB, OVID A; *HEAT, MASS AND MOMENTUM TRANSPORT IN POROUS MATERIALS APPLICATION TO WOOD DRYING (CME-7906907)*; 12 MONTHS $44,859

CHUNG, JACOB; *RESEARCH INITIATION - LAMINAR FILM CONDENSATION ON A DROPLET TRANSLATING IN A VAPOR-SURFACTANT MIXTURE (CME-8006703)*; 24 MONTHS $40,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

MYERS, GLEN E; *LONG-TIME SOLUTIONS OF HEAT CONDUCTION TRANSIENTS WITH TIME-DEPENDENT INPUTS (CME-7906879 A01)*; 12 MONTHS $23,500

LODGE, ARTHUR S; *STRESS TRANSIENTS IN ELASTIC LIQUIDS OF HIGH VISCOSITY (CME-7956190)*; 12 MONTHS $60,000

UNIVERSITY OF WISCONSIN-MILWAUKEE

BRATANOW, THEODORE; *HYDRODYNAMIC RESISTANCE OF BODIES IN VISCOUS FLOWS (CME-7911554)*; 12 MONTHS $53,820

CHAN, SHIH H; *TRANSIENT FOULING HEAT TRANSFER AND SCALE REMOVAL (CME-8006,989)*; 12 MONTHS $60,534

WYOMING

UNIVERSITY OF WYOMING

ADAMS, DONALD F; *SPECIALIZED RESEARCH EQUIPMENT: DATA ACQUISITION AND STORAGE EQUIPMENT (CME-7903979)*; 12 MONTHS $14,000

CROSS-DIRECTORATE PROGRAMS

INDUSTRY/UNIV COOPERATIVE RESEARCH

ARIZONA

UNIVERSITY OF ARIZONA

DEMER, LOUIS J; *INDUSTRY/UNIVERSITY COOPERATIVE PROGRAM (IUC) - CORRELATION OF ELECTRICALLY-ACTIVE DEFECTS IN SILICON WAFERS WITH STRUCTURAL INHOMOGENEITIES IN AS-GROWN CRYSTALS (DMR-7910082*)*; 12 MONTHS $39,709

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

MEAD, CARVER A; *DESIGN OF SILICON STRUCTURES (MCS-7905267 A01*)*; 12 MONTHS $127,161

SABERSKY, ROLF H, BRENNEN, CHRISTOPH E, GROSS, L H, AND HAGERTY, R O; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH PROGRAM: FLOW AND HEAT TRANSFER IN GRANULAR MEDIA (CME-7915120*)*; 12 MONTHS $59,516

DAMES & MOORE

DAWDY, DAVID R; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: STOCHASTIC MODELING OF STREAMFLOW WITH A PHYSICAL BASIS (CME-7907707*)*; 12 MONTHS $50,000

DYNAMICS TECHNOLOGY INC

PETERSEN, ROBERT A, AND CHEN, C PHILIP; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: PARTICLE MOTION IN A TURBULENT BOUNDARY LAYER (CME-8006427*)*; 12 MONTHS $31,389

STANFORD UNIVERSITY

TAUBE, HENRY; *REVERSIBLE OXYGEN ELECTRODE: COLLABORATIVE SEARCH FOR NEW CATALYSTS AND PHYSICAL TEXTURES (CHE-7710715 A02*)*; 12 MONTHS $169,307

IGLEHART, DONALD L; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: DISCRETE EVENT METHODS FOR COMPUTER SYSTEM SIMULATION (MCS-7908129 A02*)*; 12 MONTHS $59,899

GOODMAN, JOSEPH W, AND MACOVSKI, ALBERT; *MULTIPLEXED HOLOGRAPHIC RECONSTRUCTION METHODS FOR THREEDIMENSIONAL STRUCTURES (ECS-7906539*)*; 12 MONTHS $171,589

SPICER, WILLIAM E, AND GITTLEMAN, JONATHAN I; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FUNDAMENTAL STUDIES OF CERMETS (DMR-8001741*)*; 12 MONTHS $59,302

NELSON, DSEW V; *RESEARCH INITIATION - INVESTIGATION OF MULTIAXIAL FATIGUE (CME-8006529*)*; 24 MONTHS $34,000

DONIACH, SEBASTIAN; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THEORY OF COOPERATIVE PHENOMENA IN SUPERFLUID SYSTEMS OF REDUCED DIMENSIONALITY (DMR-8007504*)*; 12 MONTHS $35,580

CHOWNING, JOHN M; *INTELLIGENT SYSTEMS FOR THE ANALYSIS OF DIGITIZED ACOUSTIC SIGNALS (MCS-8015170*)*; 12 MONTHS $73,548

SYSTEMS CONTROL INC

GREEN, C CORDELL; *INDUSTRY UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: INTELLIGENT SYSTEMS FOR THE ANALYSIS OF DIGITIZED ACOUSTIC SIGNALS (MCS-7925997*)*; 12 MONTHS $79,913

UNIVERSITY OF CALIFORNIA, LOS ANGELES

WONG, ALFRED Y, AND DEMONTE, GUY; *HIGHLY NONLINEAR PHENOMENA AND PHYSICS OF CONFINEMENT INDUSTRY/UNIVERSITY/ COOPERATIVE RESEARCH PROGRAM (PHY-7906480 A01*)*; 12 MONTHS $237,729

UNIVERSITY OF SOUTHERN CALIFORNIA

TIHOVIC, KURT; *GALLIUM ARSENIDE MICRO-TUNNEL DIODES (ECS-7910000*)*; 12 MONTHS $41,305

BROWAND, FREDERICK K; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: PARTICLE MOTION IN A TURBULENT BOUNDARY LAYER (CME-7910720*)*; 12 MONTHS $61,902

DISTRICT OF COLUMBIA

COUNCIL OF GRADUATE SCHOOLS

PELCZAR, MICHAEL J; *WORKSHOP ON INDUSTRY UNIVERSITY AFFILIATE PROGRAMS (CDP-8000575)*; 15 MONTHS $34,791

ILLINOIS

DEERE & COMPANY

GALLIART, DALE R; *RESEARCH INITIATION - INVESTIGATION OF MULTIAXIAL FATIGUE (CME-8014761*)*; 24 MONTHS $31,202

ILLINOIS INSTITUTE OF TECHNOLOGY

SHIRK, JAMES S; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ON INTRACAVITY LASER SPECTROSCOPY (CHE-7908560 A01*)*; 12 MONTHS $32,598

NORTHWESTERN UNIVERSITY

CHUNG, YIP-WAH, AND FINE, MORRIS E; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SURFACE CONDITIONS ON FATIGUE CRACK INITIATION IN IRON AND STEELS (DMR-7908179*)*; 12 MONTHS $99,243

UNIVERSITY OF CHICAGO

LEVI-SETTI, RICCARDO; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DEVELOPMENT OF A NEW HIGH-RESOLUTION SCANNING ION MICROPROBE (DMR-8007979*)*; 12 MONTHS $130,040

UNIVERSITY OF ILLINOIS AT URBANA

STILLMAN, G E; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH PROGRAM AVALANCHE PHOTODIODES USING QUATERNARY ALLOYS FOR FIBER OPTICAL COMMUNICATION SYSTEMS (ECS-7917161*)*; 24 MONTHS $97,020

INDIANA

PURDUE UNIVERSITY

DENNING, PETER J. AND BOUHANA, JAMES. *INDUSTRY/UNIVERSITY COOPERATIVE PROGRAM (IUC) - OPERATIONAL ANALYSIS OF QUEUEING PHENOMENA* (MCS-7901729 A01*): 24 MONTHS $78,148

SATO, HIROSHI, AND KIKUCHI, RYOICHI. *INDUSTRY UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: KINETICS OF PHASE TRANSITIONS* (DMR-7908937 A01*): 12 MONTHS $24,000

ARONSON, ARTHUR L. *STRUCTURE AND FUNCTION OF BACILLUS THURINGIENSIS* (PCM-7907261*): 12 MONTHS $91,000

KENTUCKY

UNIVERSITY OF KENTUCKY

HURLEY, LAURENCE H. *BIOSYNTHETIC STUDIES ON THE PYRROLO (1,4) BENZODIAZEPINE AND LINCOMYCIN ANTIBIOTICS* (PCM-7910907*): 24 MONTHS $91,554

MAINE

UNIVERSITY OF MAINE, ORONO

SMITH, CHARLES W. AND SCHWARZ, KLAUS W. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: TIME AND SPACE RESOLVED TURBULENCE IN SUPERFLUID HELIUM 4* (DMR-8006356*): 12 MONTHS $95,500

MARYLAND

JOHNS HOPKINS UNIVERSITY

COWAN, DWAINE O. *INDUSTRY - UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SYSTEMATIC DEVELOPMENT OF NEW ORGANIC CONDUCTORS* (DMR-8013910*): 12 MONTHS $150,870

MARTIN MARIETTA CORPORATION-MARTIN MARIETTA LABORATORY

SKALNY, JAN P. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FORMATION AND REACTIVITY OF TRICALCIUM SILICATE AND DICALCIUM SILICATE* (CME-7908966*): 12 MONTHS $43,617

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DRESSELHAUS, MILDRED S. *INTERDISCIPLINARY MATERIALS RESEARCH* (DMR-7905183 A05*): 12 MONTHS $77,300

GILBERT, ROBERT J. AND CHANCE, RONALD R. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THEORETICAL STUDIES OF POLYDIACETYLENES AND POLYACETYLENES* (DMR-7908907 A01*): 12 MONTHS $25,000

SATTERFIELD, CHARLES N. AND MADON, ROHTAM J. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: EFFECT OF BULK LIQUID VS. GAS PHASE ON SELECTIVITY IN THE FISCHER-TROPSCH SYNTHESIS* (CPE-7916117P*): 12 MONTHS $104,894

STEINFELD, JEFFREY I. MCNEELY, P. AND HOLLAHAN, J. R. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: LASER-ENHANCED RADICAL ETCHING OF SEMICONDUCTOR SURFACES* (CHE-7904897 A01*): 24 MONTHS $161,386

ZAHN, MARKUS. *HIGH VOLTAGE CONDUCTION AND BREAKDOWN PHENOMENA IN DIELECTRICS* (ECS-8018557*): 24 MONTHS $93,440

PHYSICAL SCIENCES INC

CALEDONIA, G. E. AND WILKERSON, THOMAS D. *INDUSTRY - UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: COLLISION - INDUCED EMISSION AND LIGHT SCATTERING IN HIGH PRESSURE, HIGH TEMPERATURE GASES* (CPE-8000995*): 12 MONTHS $94,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

STEIN, RICHARD S. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: OPTICAL, X-RAY AND NEUTRON SCATTERING STUDIES OF POLYMER MORPHOLOGY AND RELAXATION* (DMR-7902403 A05*): 12 MONTHS $14,000

MICHIGAN

UNIVERSITY OF MICHIGAN

SUMMERFIELD, GEORGE C. KING, JOHN S. AND ULLMAN, ROBERT. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: MOLECULAR CONFORMATION OF POLYMERS BY SMALL ANGLE NEUTRON SCATTERING* (DMR-7908854*): 12 MONTHS $98,000

WANG, HENRY Y. SCHULTZ, JEROME S. AND SAVAGEAU, MICHAEL A. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: STUDIES AND APPLICATION OF DYNAMIC EXTRACTION ON FERMENTATION PROCESSES* (CPE-8018487*): 12 MONTHS $110,000

MISSOURI

UNIVERSITY OF MISSOURI, ROLLA

O KEEFE, THOMAS J. *THE ROLE OF TRACE ELEMENTS AND ADDITIVES IN NON FERROUS ELECTROLYTIC PROCESSING* (DAR-8018718*): 12 MONTHS $87,000

WASHINGTON UNIVERSITY

TARIS, ROBERT, AND SCHAEFER, JACOB F. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: RELAXATION STUDIES ON GLASSY POLYMERS* (DMR-8007060*): 12 MONTHS $60,000

NEW YORK

COLUMBIA UNIVERSITY-COLLEGE OF PHYSICIANS AND SURGEONS

BLANK, MARTIN. *ELECTROCHEMICAL PROCESSES AT SURFACES IN THE REGULATION OF MEMBRANE TRANSPORT* (PCM-7909014 A08*): $34,251

COLUMBIA UNIVERSITY

SCHWARTZ, MISCHA, BARROW, THEODORE R, AND STERN, THOMAS E. *INDUSTRY UNIVERSITY COOPERATIVE RESEARCH (IUCR): DATA NETWORKS AND SATELLITE COMMUNICATIONS* (ECS-7910080*): 12 MONTHS $95,000

CORNELL UNIVERSITY

MCLAFFERTY, FRED W. *COMPUTER IDENTIFICATION OF UNKNOWN MASS SPECTRA* (CHE-7910408*): 12 MONTHS $73,954

BAUER, SIMON H. AND JOHNSON, MARVIN L. *INDUSTRY UNIVERSITY COOPERATIVE RESEARCH: EXAMINATION OF (CPE-8000005*): 36 MONTHS $130,501

CUNY GRADUATE SCHOOL AND UNIVERSITY CENTER

AUSLANDER, LOUIS. *FAST ALGORITHMS OF DIGITAL SIGNAL PROCESSING* (ECS-7911101*): 12 MONTHS $40,000

POLYTECHNIC INSTITUTE OF NEW YORK

PEARCE, ELI M. *INDUSTRY UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ALIPHATIC POLYAMIDES AND DEFECTS IN THEIR CRYSTAL STRUCTURE : LONG TERM ENVIRONMENTAL EFFECTS* (DMR-7909097 A05*): 12 MONTHS $32,000

ROCKEFELLER UNIVERSITY

BLACK, MARTIN A. *MECHANISM OF LIPOLYTIC HORMONE ACTION* (PCM-7910990*): 12 MONTHS $69,200

STATE UNIVERSITY AT BINGHAMTON

KLIR, GEORGE J. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: COMPUTER-AIDED ANALYSIS OF REDUNDANT/VARIABILITY OF MANYDIMENSIONAL RELATIONS* (BCS-7910904 A02*): 12 MONTHS $56,700

STATE UNIVERSITY AT BUFFALO

NANCOLLAS, GEORGE H. AND SABONE, JOSEPH P. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: CRYSTALLIZATION AND DISSOLUTION OF FLUORIDE AND PHOSPHATE SALTS* (CPE-8000402*): 12 MONTHS $90,538

BENENSON, DAVID M. AND PRIN[illegible]*RHARD. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: INVESTIGATION OF UP STREAM MISSILE EFFECTS ON Alfv. INTERRUPTION SPEED* (CPE-8000101*): 12 MONTHS $109,316

UNIVERSITY OF ROCHESTER

GOVE, HARRY E. AND PURSER, KENNETH H. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ADDITIONS TO THE TANDEM ACCELERATOR AT THE UNIVERSITY OF ROCHESTER FOR ULTRA-SENSITIVE PARTICLE IDENTIFICATION* (PHY-7920000 A01*): 12 MONTHS $170,000

NORTH CAROLINA

DUKE UNIVERSITY

KRIGBAUM, WILLIAM R. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: PHYSICOCHEMICAL STUDIES OF RIGID-ROD AND SEMI-FLEXIBLE CHAIN POLYMERS* (DMR-7908631 A02*): 12 MONTHS $21,000

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

HOFFENDERG, HAROLD B. *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: TRANSPORT AND RELAXATION IN GLASSY POLYMERS* (CPE-7908740*): 12 MONTHS $141,681

OHIO

CASE WESTERN RESERVE UNIVERSITY

WALLACE, JOHN P. MAIER, RALPH D. AND MULLER, CHARLES L. *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FORMATION AND CONTROL OF COMPACTED GRAPHITE STRUCTURE IN CAST IRON* (DMR-7910108*): 24 MONTHS $55,064

UNIVERSITY OF CINCINNATI

KHANG, SOON-JAI, AND ADAMS, FRANK G. *STUDY ON AGED MIXING AND SPECIES MIXING IN TIN-LINE MATHEMATICAL MODELS* (CPE-7910104*): 24 MONTHS $69,777

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

TUMA, DAVID T. *INVESTIGATION OF ELECTRICAL BREAKDOWN IN VACUUM* (ECS-7908417*): 12 MONTHS $60,997

DIRECTOR, G W. BRAYTON, R K. AND RACHUT[illegible], C H. *INDUSTRY/UNIVERSITY COOPERATIVE PROGRAM (IUC) - STATISTICAL DESIGN OF INTEGRATED CIRCUITS* (ECS-7921015*): 24 MONTHS $110,000

LEHIGH UNIVERSITY

LEVY, EDWARD K. *HEAT TRANSFER IN ROTATING AND CURVED DUCTS* (CME-7907514*): 12 MONTHS $107,000

UNIVERSITY OF PENNSYLVANIA

QUINN, JOHN A: *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: MEMBRANE REACTORS (CPE-7813281 A01*);* 12 MONTHS $15,727

UNIVERSITY OF PITTSBURGH

LINDT, J T; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: REACTIVE PROCESSING OF POLYMERS IN A SINGLE-SCREW EXTRUDER (CPE-8007184*);* 12 MONTHS $46,769

PUERTO RICO

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS

BLUM, LESSER; *STATISTICAL MECHANICS OF THE ELECTRIC DOUBLE LAYER (CHE-8001969*);* 12 MONTHS $82,195

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND

ESTRIN, JOSEPH, AND TADROS, MAHER K; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THE MECHANISMS OF GROWTH AND MORPHOLOGICAL STABILITY OF SPARINGLY SOLUBLE CRYSTALS (CPE-8018110*);* 12 MONTHS $71,777

TEXAS

TEXAS A & M UNIVERSITY

BRIAUD, JEAN LOUI; *JOINT INDUSTRY/UNIVERSITY COOP RESEARCH ACTIVITY: RESEARCH INITIATION-CHARACTERIZATION OF SOIL BEHAVIOR WITH THE PRESSUREMETER FOR PREDICTING THE LATERAL CAPACITY OF PILES (CME-8006727*);* 24 MONTHS $56,645

VIRGINIA

UNIVERSITY OF VIRGINIA

JOHNSON, ROBERT E; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: EROSION OF CONDENSED GASES BY FAST IONS: PHYSICAL MECHANISM AND ASTROPHYSICAL IMPLICATIONS (AST-7912690*);* 12 MONTHS $23,400

WASHINGTON

BOEING ENGINEERING AND CONSTRUCTION

LYTLE, FARREL W, AND SANDSTROM, DONALD R; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: EXAFS INVESTIGATION OF SUPPORT EFFECTS, CHEMISORPTION AND SURFACE DISORDER IN CATALYSIS (CHE-7918084*);* 12 MONTHS $54,940

WASHINGTON STATE UNIVERSITY

MANWARING, MARK L; *RESEARCH INITIATION - DEVELOPMENT OF A DIGITAL SYSTEM CONTROLLER WHICH IS DIRECTLY PROGRAMMABLE IN A HIGH LEVEL LANGUAGE (ECS-8006886*);* 24 MONTHS $59,522

WISCONSIN

UNIVERSITY OF WISCONSIN-MILWAUKEE

CHANG, Y AUSTIN; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: PHASE INVESTIGATION OF LEAD-TIN-CALCIUM ALLOYS (DMR-7908333*);* 12 MONTHS $65,970

LEVY, MOISES; *INVESTIGATION OF MAGNETIC FILMS FOR DEVELOPMENT OF VARIABLE AMPLITUDE AND FREQUENCY SAW FILTERS (ECS-8001773*);* 12 MONTHS $84,906

REGIONAL INSTRUMENTATION FACILITIES

ARIZONA

ARIZONA STATE UNIVERSITY

COWLEY, JOHN M, BUSECK, PETER R, SPENCE, JOHN C, AND EYRING, LEROY; *REGIONAL INSTRUMENTATION FACILITY FOR HIGH RESOLUTION ELECTRON MICROSCOPY (CDP-7916098 A01);* 12 MONTHS $572,000

UNIVERSITY OF ARIZONA

DAMON, PAUL E, AND DONAHUE, DOUGLAS J; *REGIONAL INSTRUMENTATION FACILITY FOR RADIOCARBON DATING AND TRACE-ELEMENT ANALYSIS (RIF-7818576 A02);* 12 MONTHS $286,773

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

CHAN, SUNNEY I; *SOUTHERN CALIFORNIA REGIONAL CENTER FOR NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY (CDP-7916924 A01);* 18 MONTHS $408,597

UNIVERSITY OF CALIFORNIA, BERKELEY

LEE, YUAN T, BRAUMAN, JOHN I, MOORE, C B, AND ZARE, RICHARD N; *THE SAN FRANCISCO LASER CENTER (CDP-7916250 A01);* 12 MONTHS $335,784

COLORADO

COLORADO STATE UNIVERSITY

MACIEL, GARY E; *REGIONAL INSTRUMENTATION FACILITY FOR NUCLEAR MAGNETIC RESONANCE SPECTROMETRY (CDP-7818581 A02);* 12 MONTHS $209,672

CONNECTICUT

YALE UNIVERSITY

LYONS, PHILIP A, CROTHERS, DONALD M, FALLER, J W, PRESTEGARD, JAMES H, AND SAUNDERS, MARTIN; *EAST COAST REGIONAL HIGH FIELD NUCLEAR MAGNETIC RESONANCE FACILITY (CDP-7916210);* 12 MONTHS $606,000

LYONS, PHILIP A, CROTHERS, DONALD M, FALLER, J W, PRESTEGARD, JAMES H, AND SAUNDERS, MARTIN; *EAST COAST REGIONAL HIGH FIELD NUCLEAR MAGNETIC RESONANCE FACILITY (CDP-7916210 A01);* 12 MONTHS $206,000

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

FELD, MICHAEL S; *NORTHEAST REGIONAL CENTER FOR LASER SPECTROSCOPY AND DYNAMICS (CDP-7818580);* 12 MONTHS $590,000

MINNESOTA

UNIVERSITY OF MINNESOTA AT SAINT PAUL

SCHMIDT, LANNY D, AND HEXTER, ROBERT M; *REGIONAL INSTRUMENTATION FACILITY FOR SURFACE ANALYSIS (RIF-7916206);* 12 MONTHS $832,323

MONTANA

MONTANA STATE UNIVERSITY

LAPEYRE, GERALD J; *REGIONAL INSTRUMENTATION FACILITY FOR A SURFACE SCIENCE AND SUBMICRON ANALYSIS LABORATORY (CDP-7916134 A01);* 12 MONTHS $200,000

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

DURIG, JAMES R, ELLIS, PAUL D, AND AMMA, E L; *REGIONAL INSTRUMENTATION FACILITY OF NUCLEAR MAGNETIC RESONANCE SPECTROMETRY (CDP-7818723 A02);* 12 MONTHS $200,000

RES INITIATION IN MINORITY INSTITUTIONS

DISTRICT OF COLUMBIA

HOWARD UNIVERSITY-COLLEGE OF MEDICINE

RHOADS, ALLEN R. *MULTI-USER LIQUID SCINTILLATION COUNTER FOR THE DEPT OF BIOCHEMISTRY (MRI-7910673);* 12 MONTHS $27,500

HOWARD UNIVERSITY

BUTCHER, RAYMOND J; *PURCHASE OF A COMPUTER CONTROLLED FOUR CIRCLE X-RAY DIFFRACTOMETER (MRI-7907759);* 12 MONTHS $50,000

MASSARI, V 0; *COLLATERAL SPROUTING OF MONOAMINERGIC AND SUBSTANCE P NEURONS IN THE SPINAL CORD (BNS-7923451*);* 12 MONTHS $60,504

MAGLOTT, DONNA R; *GENETIC REGULATION OF ACTIN SYNTHESIS IN EARLY SEA URCHIN DEVELOPMENT (PCM-8004695*);* 36 MONTHS $40,000

HUNT, FERN; *A MATHEMATICAL MODEL OF GENETIC FEEDBACK AND DISPERSAL (MCS-8005777*);* 24 MONTHS $18,900

JAMES, DAVID M; *DIFFERENTIAL TOPOLOGY (MCS-8012171*);* 12 MONTHS $7,908

GEORGIA

MOREHOUSE COLLEGE

MSEZANE, ALFRED Z; *THEORETICAL INVESTIGATION OF PHOTON-EXCITED ATOM INTERACTIONS (PHY-8017775*);* 24 MONTHS $23,300

ILLINOIS

CHICAGO STATE UNIVERSITY

JOHNSONBAUGH, RICHARD; *SYNTHESIS AND ANALYSIS OF PETRI NETS AND MARKED GRAPHS (MCS-8009804*);* 24 MONTHS $24,920

NEW YORK

CITY COLLEGE

LINDSAY, DEREK; *SPECTROSCOPIC STUDIES OF SMALL METAL CLUSTERS (CHE-7913260*);* 36 MONTHS $95,000

TARDOS, GABRIEL I; *AGGLOMERATION OF PARTICULATE SYSTEMS IN FLUIDIZED BEDS (CPE-7925854*);* 24 MONTHS $92,316

WOODWARD, ARTHUR E; *RESEARCH INITIATION IN MINORITY INSTITUTIONS: CRYSTALS OF POLYISOPRENE (DMR-8007226*);* 24 MONTHS $100,000

TURCHIN, VALETIN, AND WELDON, CHARLES; *A SUPERCOMPILER SYSTEM BASED ON THE LANGUAGE REFAL (MCS-8007565*);* 24 MONTHS $50,000

NORTH CAROLINA

NORTH CAROLINA AGRICULTURAL & TECH STATE UNIV

WANG, CHIAN; *RESEARCH INITIATION - DESIGN OF CLASSIFICATION RULES FROM A MAXIMUM RANK SUM STATISTIC AND APPLICATION TO FINE PARTICLE ANALYSIS (CPE-8006757*);* 24 MONTHS $39,867

PENNSYLVANIA

LINCOLN UNIVERSITY

WILLIAMS, WILLIE; *RESISTIVITY STUDIES OF THE VARIATION OF NEEL TEMPERATURE OF SEVERAL ANTIFERROMAGNETIC MANGANESE ALLOYS (DMR-8006931*)*; 24 MONTHS $109,000

KING, WILLIAM M; *THE NATIONAL INSTITUTE OF SCIENCE: VEHICLE FOR BLACK DEVELOPMENT IN THE SCIENCES (SES-8017692*)*; 12 MONTHS $31,263

PUERTO RICO

UNIV OF PUERTO RICO MEDICAL SCIENCES CAMPUS

KRAISELBURD, EDMUNDO; *INDUCTION OF SOMATIC CELL MUTATIONS BY HERPES SIMPLEX (MRI-7901189)*; 12 MONTHS $53,500

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS

MIRABEL, IGOR F; *NEUTRAL HYDROGEN STUDIES IN COSMOLOGY, ACTIVE GALAXIES AND THE GALACTIC ENVIRONMENT (AST-8013148*)*; 36 MONTHS $55,100

ALTSCHULER, DANIEL; *RADIO ASTRONOMICAL STUDY OF GALAXIES, BL LAC OBJECTS AND LOW FREQUENCY VARIABLE SOURCES (AST-8018384*)*; 36 MONTHS $49,300

TEXAS

PAN AMERICAN UNIVERSITY

ALDRIDGE, JAMES W; *PHONETIC STORAGE IN SPEECH PERCEPTION (BNS-7919801*)*; 24 MONTHS $59,527

TWO AND FOUR YEAR COLLEGES INSTR & EQUIP

ALABAMA

LIVINGSTON UNIVERSITY

BUCKNER, RICHARD L; *ACQUISITION OF MICROSCOPE SYSTEM (TFI-8016699)*; 12 MONTHS $18,536

TUSKEGEE INSTITUTE

WASHINGTON, LINDA P; *EQUIPMENT FOR IMMUNOCHEMICAL CHARACTERIZATION FILAMENTS (TFI-7920668)*; 12 MONTHS $25,000

UNIVERSITY OF ALABAMA IN HUNTSVILLE

HARRIS, J; *EQUIPMENT FOR RESEARCH ON ORGANIC REACTION MECHANISMS (TFI-8019068)*; 12 MONTHS $20,000

UNIVERSITY OF SOUTH ALABAMA

ISPHORDING, WAYNE C, AND RIVIZZIGNO, VICTORIA L; *EQUIPMENT FOR COMPUTER MAPPING/GRAPHICS IN THE SPATIAL ANALYSIS OF GEOLOGICAL AND GEOGRAPHICAL DATA (TFI-8011239)*; 12 MONTHS $23,395

ARKANSAS

HENDRIX COLLEGE

GOODWIN, THOMAS E; *ACQUISITION OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (TFI-8006650)*; 12 MONTHS $22,495

CALIFORNIA

CALIFORNIA STATE UNIVERSITY, FULLERTON

ROGERS, HAROLD R; *EQUIPMENT FOR MECHANISTIC INVESTIGATIONS OF ORGANOMETALLIC REACTIONS (TFI-7924320)*; 12 MONTHS $15,286

LINDER, MARIA C; *MULTISAMPLE AUTOMATIC GAMMA COUNTER AND SMALL ANIMAL WHOLE BODY COUNTER FOR BIOCHEMICAL RESEARCH (TFI-8009506)*; 12 MONTHS $20,700

CALIFORNIA STATE UNIVERSITY, HAYWARD

WARNKE, DETLEF A; *ACQUISITION OF GAS CHROMATOGRAPH FOR ANALYSIS OF AMINO ACIDS (TFI-8016786)*; 12 MONTHS $17,215

CALIFORNIA STATE UNIVERSITY, LONG BEACH

INDERLIED, CLARK B, AND KINGSFORD, LAURA; *ACQUISITION OF LIQUID SCINTILLATION SYSTEM (TFI-8018422)*; 12 MONTHS $24,866

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

BRAGIN, JOSEPH; *MOLECULAR SPECTROSCOPY OF SMALL MOLECULES (TFI-8016807)*; 12 MONTHS $10,460

HARVEY MUDD COLLEGE

KUBOTA, MITSURU; *PURCHASE OF A UV-VISIBLE SPECTROPHOTOMETER (TFI-7923565)*; 24 MONTHS $25,000

OCCIDENTAL COLLEGE

DEHAAN, FRANK P; *EQUIPMENT FOR AROMATIC SUBSTITUTION REACTIONS RESEARCH (TFI-7923564)*; 18 MONTHS $24,900

MORRIS, WILLIAM J; *COMPUTER TERMINAL COMPONENTS FOR PALEONTOLOGICAL STUDIES OF INTERFERENCE HOLOGRAPHY DIAGRAMS (TFI-7926652)*; 18 MONTHS $24,984

KEELEY, JON E; *EQUIPMENT FOR DIURNAL ACID METABOLISM STUDIES (TFI-8001910)*; 12 MONTHS $11,600

WEST, C DAVID; *GRAPHITE FURNACE ATOMIC ABSORPTION INSTRUMENTATION FOR THE ANALYSIS OF COAL (TFI-8011341)*; 12 MONTHS $25,000

POINT LOMA COLLEGE

HEASLEY, VICTOR L; *ACQUISITION OF HIGH PRESSURE LIQUID CHROMATOGRAPH (TFI-8002384)*; 12 MONTHS $21,932

SAN DIEGO STATE UNIVERSITY

DAVIS, JEFFREY A; *ACQUISITION OF LOW TEMPERATURE CLOSED CYCLE REFRIGERATOR SYSTEM (TFI-7923566)*; 12 MONTHS $11,113

EBERT, THOMAS A; *RESEARCH EQUIPMENT FOR BIOLOGICAL OCEANOGRAPHY (TFI-8000289)*; 12 MONTHS $25,190

SAN JOSE STATE UNIVERSITY

MULLINS, HENRY T; *UNIBOOM SEISMIC REFLECTION PROFILING SYSTEM (TFI-7926669)*; 12 MONTHS $25,000

UNIVERSITY OF THE PACIFIC-PACIFIC MEDICAL CENTER

HIGHSMITH, STEFAN; *PURCHASE OF A FLUORIMETER (TFI-7923045)*; 24 MONTHS $13,382

HIGHSMITH, STEFAN; *PURCHASE OF A FLUORIMETER (TFI-7923045 A01)*; $8,100

COLORADO

UNIVERSITY OF COLORADO AT COLORADO SPRINGS

SCHOFFSTALL, ALLEN M, MATTOON, JAMES R, JONES, ROBERT E, AND KEVAN, PETER G; *ACQUISITION OF ULTRAVIOLET-VISIBLE-NEAR INFRARED SPECTROPHOTOMETER (TFI-8012309)*; 12 MONTHS $25,000

CONNECTICUT

WESLEYAN UNIVERSITY

HERBST, WILLIAM, AND UPGREN, ARTHUR R; *ACQUISITION OF SPECTROGRAPH FOR ASTRONOMICAL RESEARCH (TFI-8015491)*; 12 MONTHS $20,620

FLORIDA

BETHUNE-COOKMAN COLLEGE

SEN, SHUKDEB; *ACQUISITION OF LIQUID SCINTILLATION COUNTER (TFI-8004200)*; 12 MONTHS $21,320

ECKERD COLLEGE

FERGUSON, JOHN C; *ACQUISITION OF EQUIPMENT TO STUDY VALUE OF DOM TO MARINE ANIMALS (TFI-8008436)*; 12 MONTHS $6,065

FLORIDA INTERNATIONAL UNIVERSITY

TRACEY, MARTIN L; *SCINTILLATION COUNTER FOR DNA STUDY (TFI-8008171)*; 12 MONTHS $11,900

TRACEY, MARTIN L; *PREPARATIVE ULTRACENTRIFUGE FOR DNA STUDY (TFI-8008172)*; 12 MONTHS $11,605

SHELDON, JOHN W; *EQUIPMENT FOR RESEARCH ON FREE RADICAL MOLECULAR BEAM SCATTERING (TFI-8018970)*; 12 MONTHS $4,932

STETSON UNIVERSITY

LICK, THOMAS A; *COMPUTER EQUIPMENT TO STUDY ELECTRON HOLE RECOMBINATION LUMINESCENCE IN REFRACTORY OXIDES (TFI-8011464)*; 12 MONTHS $10,535

UNIVERSITY OF CENTRAL FLORIDA

GUPTON, JOHN T; *ACQUISITION OF NUCLEAR MAGNETIC RESONANCE SPECTROMETER (TFI-7922930)*; 12 MONTHS $24,915

UNIVERSITY OF TAMPA

SNELL, TERRY W; *ACQUISITION OF STEREOSCOPIC MICROSCOPE FOR TAXONOMY AND ZOOGEOGRAPHY STUDIES (TFI-8003604)*; 12 MONTHS $5,400

GEORGIA

GEORGIA COLLEGE

MCDANIEL, WILLIAM F; *ACQUISITION OF EQUIPMENT TO STUDY A NON-PRIMATE MODEL OF POSTERIOR NEOCORTEX FUNCTION (TFI-7919356)*; 12 MONTHS $9,800

GEORGIA SOUTHERN COLLEGE

HARTBERG, W; *CONSTRUCTION OF CONTROLLED ENVIRONMENT ROOM FOR RESEARCH ON GENETICS OF DISEASE-BEARING MOSQUITOES (TFI-8017244)*; 12 MONTHS $13,728

GEORGIA STATE UNIVERSITY

WILSON, W D; *ACQUISITION OF PREPARATIVE ULTRACENTRIFUGE (TFI-7924717)*; 12 MONTHS $17,500

ILLINOIS

BRADLEY UNIVERSITY

MONOSON, HERBERT L; *PURCHASE OF EQUIPMENT FOR BIOLOGICAL RESEARCH (TFI-7921048)*; 12 MONTHS $17,015

STUTZ, CONLEY; *ACQUISITION OF PULSED SPECTROMETER (TFI-8018021)*; 12 MONTHS $24,305

ILLINOIS STATE UNIVERSITY

STEVENSON, GERALD R; *DATA ACQUISITION SYSTEM FOR THERMODYNAMIC AND STRUCTURAL DETERMINATIONS (TFI-8000535)*; 12 MONTHS $23,000

NORTHERN ILLINOIS UNIVERSITY

MASON, W R; *SUPERCONDUCTING MAGNET FOR MAGNETIC CIRCULAR DICHROISM SPECTROSCOPY (TFI-8012988)*; 12 MONTHS $24,300

HAMPEL, ARNOLD; *AQUISITION OF A PREPARATIVE ULTRACENTRIFUGE (TFI-8017883);* 12 MONTHS $22,000

OLIVET NAZARENE COLLEGE

TAYLOR, STEPHEN K; *ACQUISITION OF LIQUID CHROMATOGRAPH (TFI-8006131);* 12 MONTHS $13,900

REAMS, MAX W; *ACQUISITION OF A DIFFRACTOMETER (TFI-8020407);* 12 MONTHS $24,900

SOUTHERN ILLINOIS UNIVERSITY - EDWARDSVILLE

MATTA, MICHAEL S; *ACQUISITION OF A ELECTRON PARAMAGNETIC RESONANCE SPECTROMETER CONSOLE SYSTEM (TFI-8008590);* 12 MONTHS $24,650

INDIANA

EARLHAM COLLEGE

STRATTON, WILMER J; *PURCHASE OF ATOMIC ABSORPTION SPECTROMETER (TFI-7924662);* 12 MONTHS $10,500

VAN ZANT, KENT; *MICROSCOPE FOR PALYNOLOGICAL RESEARCH (TFI-8008238);* 12 MONTHS $14,714

OGREN, PAUL J; *ACQUISITION OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (TFI-8008429);* 12 MONTHS $25,000

CHRISTIAN, WOLFGANG; *ACQUISITION OF INFRARED FLUORESCENCE APPARATUS (TFI-8018627);* 12 MONTHS $10,305

INDIANA UNIVERSITY, BLOOMINGTON

KECK, ROBERT W; *SPECTROPHOTOMETER FOR RESEARCH ON LIPOSOMES AND CHLOROPLASTS (TFI-8017528);* 12 MONTHS $21,824

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

WILSON, KATHRYN; *RESEARCH LIGHT MICROSCOPE WITH AUTOMATIC CAMERA (TFI-8017527);* 12 MONTHS $24,765

VALPARAISO UNIVERSITY

KOETKE, DONALD D; *EQUIPMENT FOR ELEMENTAL ANALYSIS OF ANCIENT ARTIFACTS USING ENERGY DISPERSIVE X-RAY FLUOR (TFI-8001930);* 12 MONTHS $24,800

WABASH COLLEGE

BUETTNER, GARRY R; *ACQUISITION OF EQUIPMENT FOR KINETICS OF (A) PERMANGANATE OXIDATIONS IN NON-AQUEOUS MEDIA AND (B) THE FENTON REACTION (TFI-7920401);* 12 MONTHS $7,980

IOWA

CORNELL COLLEGE

ODOM, DANIEL G; *PURCHASE OF SPECTROPHOTOMETER FOR RESEARCH IN CHEMISTRY (TFI-8004829);* 12 MONTHS $15,297

GRINNELL COLLEGE

ERICKSON, LUTHER E; *ACQUISITION OF FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROMETER (TFI-8007871);* 12 MONTHS $24,950

LUTHER COLLEGE

ECKBLAD, JAMES W; *ACQUISITION OF A FLUOROMETER WITH AUXILIARY EQUIPMENT (TFI-8002630);* 12 MONTHS $5,534

KANSAS

BENEDICTINE COLLEGE

BASSI, SUKH; *EQUIPMENT FOR RESEARCH ON BIOCONVERSION OF CELLULOSE INTO GLUCOSE AND ALCOHOL (TFI-8017526);* 12 MONTHS $22,640

KENTUCKY

BELLARMINE COLLEGE

KORN, ROBERT W; *ACQUISITION OF SCANNING ELECTRON MICROSCOPE (TFI-8014090);* 12 MONTHS $21,936

WESTERN KENTUCKY UNIVERSITY

GLEASON, LARRY N, AND HOYT, ROBERT D; *EQUIPMENT FOR RESEARCH ON FISH PARASITES AND HELMINTHS (TFI-7926697);* 12 MONTHS $8,942

LOUISIANA

LOUISIANA TECH UNIVERSITY

WAKEMAN, JOHN M; *EQUIPMENT FOR AMBIENT SALINITY AND BLOOD OSMOLALITY AND RESPIRATORY METABOLISM (TFI-7922927);* 12 MONTHS $3,852

UNIVERSITY OF NEW ORLEANS

MC MANIS, KENNETH L; *ACQUISITION OF GRADIENT CONTROLLED CONSOLIDOMETER (TFI-8012978);* 12 MONTHS $10,635

UNIVERSITY OF SOUTHWESTERN LOUISIANA

BROWN, ROY C; *ACQUISITION OF A ULTRAMICROTOME FOR BOTANICAL RESEARCH (TFI-8000269);* 12 MONTHS $12,075

GROSSMAN, STEVEN H; *EQUIPMENT FOR FLUORESCENCE ANALYSIS (TFI-8016605);* 12 MONTHS $22,289

MAINE

BATES COLLEGE

MACKALL, JULIA C; *SPECTROPHOTOMETER FOR STUDY OF ERYTHROCYTE GLUCOSE 6-PHOSPHATE DEHYDROGENASE (TFI-8007379);* 12 MONTHS $16,295

UNIVERSITY OF MAINE, PRESQUE ISLE

TRIPP, TERRENCE B; *AN INVESTIGATION OF THE DENSITY IN ELECTRICAL CONDUCTION BEHAVIOR OF AQUEOUS MELTS (TFI-7926670);* 12 MONTHS $2,398

MARYLAND

UNITED STATES NAVAL ACADEMY

WINTERSGILL, MARY C; *EQUIPMENT FOR RESEARCH ON HIGH PRESSURE ELECTRICAL PROPERTIES OF MATERIALS (TFI-8006491);* 12 MONTHS $19,870

MASSACHUSETTS

AMHERST COLLEGE

ZAJONC, ARTHUR G; *ACQUISITION OF RESEARCH EQUIPMENT FOR SPECTRUM ANALYZER (TFI-7926246);* 12 MONTHS $13,070

BRIDGEWATER STATE COLLEGE

PEABODY, DIANE C; *ACQUISITION OF RESEARCH MICROSCOPE (TFI-7927124);* 12 MONTHS $24,829

COLLEGE OF OUR LADY OF THE ELMS

WRIGHT, MARY L; *ACQUISITION OF EQUIPMENT TO STUDY CIRCADIAN RHYTHMS OF CELL POPULATION KINETICS (TFI-8008435);* 12 MONTHS $23,000

MOUNT HOLYOKE COLLEGE

SPITLER, MARK T; *INSTRUMENTATION FOR PHOTOELECTROCHEMICAL RESEARCH (TFI-7922929);* 12 MONTHS $24,350

SMITH, JANICE G; *EQUIPMENT TO STUDY NEW APPLICATIONS OF THE OXY-COPE REARRANGEMENT IN ORGANIC SYNTHESIS (TFI-8011272);* 12 MONTHS $13,006

KOHLER, SUSAN J; *ACQUISITION OF POWER AMPLIFIERS FOR NMR (TFI-8015825);* 12 MONTHS $24,900

SMITH COLLEGE

DE VILLIERS, PETER A; *ACQUISITION OF EQUIPMENT FOR EXPERIMENTAL PSYCHOLOGY (TFI-7924447);* 12 MONTHS $22,420

TUFTS UNIVERSITY

SHULTZ, MARY JANE; *EQUIPMENT FOR INTERMOLECULAR ENERGY TRANSFER KINETICS AND RELATED STUDIES (TFI-8007858);* 12 MONTHS $23,900

SWINNEY, DAVID A; *MICROPROCESSOR FOR PSYCHOLINGUISTICS COGNITION RESEARCH (TFI-8014957);* 12 MONTHS $16,779

UNIVERSITY OF MASSACHUSETTS, BOSTON

BAWA, KAMALJIT S; *VISION SCOPE FOR POLLINATION BIOLOGY (TFI-7926711);* 12 MONTHS $2,858

SCHMITTER, RUTH E, HAGAR, WILLIAM G, AND SHEERIN, HARLAND E; *ACQUISITION OF EQUIPMENT FOR FLUORIMETRIC MEASUREMENTS IN PHOTOSYNTHESIS AND BIOCHEMICAL ASSAYS (TFI-8001160);* 12 MONTHS $14,588

WELLESLEY COLLEGE

ALLEN, MARY M; *ACQUISITION OF RESEARCH EQUIPMENT TO STUDY NITROGEN METABOLISM IN UNICELLULAR CYANOBACTERIA (TFI-8002385);* 12 MONTHS $12,155

HIRSCH, ANN M; *ACQUISITION OF ULTRAMICROTOME AND OTHER EQUIPMENT FOR ELECTRON MICROSCOPE RESEARCH (TFI-8007657);* 12 MONTHS $20,470

KOLODNY, NANCY H; *EQUIPMENT FOR CARBON-13 & PHOSPHORUS-31 NUCLEAR MAGNETIC RESONANCE STUDIES OF MOLECULAR STRUCTURE (TFI-8008364);* 12 MONTHS $24,705

HARRIS, GARY C; *EQUIPMENT FOR RESEARCH ON PHOTOSYNTHETIC CARBON METABOLISM AND LEAF TISSUE INTERACTION (TFI-8008936);* 12 MONTHS $14,030

BROWN, JUDITH C; *EQUIPMENT FOR LIGHT SCATTERING STUDY OF AS-1 AND CYANOPHYCIN GRANULE (TFI-8013458);* 12 MONTHS $12,500

EICHENBAUM, HOWARD B; *MINICOMPUTER FOR OLFACTORY-LIMBIC SYNCHRONY RESEARCH (TFI-8016784);* 12 MONTHS $24,650

KAHL, STEPHEN B; *ACQUISITION OF PREPARATIVE HIGH PRESSURE LIQUID (TFI-8017695);* 12 MONTHS $16,814

LEVY, JUDITH T; *ACQUISITION OF ANALYTICAL HIGH PRESSURE LIQUID CHROMATOGRAPH SYSTEM (TFI-8017807);* 12 MONTHS $22,500

WILLIAMS COLLEGE

PASACHOFF, JAY M; *ACQUISITION OF EQUIPMENT FOR ECLIPSE STUDIES OF CORONAL OSCILLATIONS AND CORONAL HEATING (TFI-7922936);* 12 MONTHS $25,000

NAGAHASHI, GERALD; *EQUIPMENT TO STUDY GLYCOPROTEINS AND GLYCOSYL TRANSFERASES OF CORN ROOTS (TFI-7927121);* 12 MONTHS $21,600

WORCESTER POLYTECHNIC INSTITUTE

SCALA, ALFRED A; *ACQUISITION OF A HIGH PRESSURE LIQUID CHROMATOGRAPH (TFI-8017459);* 12 MONTHS $22,468

MICHIGAN

ALBION COLLEGE

DIXON, CLARA; *EQUIPMENT FOR RESEARCH ON GEOGRAPHIC VARIATION IN AVIAN SPECIES (TFI-8008589);* 12 MONTHS $6,980

HOPE COLLEGE

DOYLE, MICHAEL P; *PURCHASE OF A 60-MHZ NUCLEAR MAGNETIC RESONANCE SPECTROMETER AND ACCESSORIES (TFI-7921509)*; 12 MONTHS $17,182

WILLIAMS, DONALD H; *PURCHASE OF ULTRAVIOLET VISIBLE SPECTROPHOTOMETER (TFI-8006490)*; 3 MONTHS $24,650

OAKLAND UNIVERSITY

HENRY, EGBERT W, AND SAKAI, ANN K; *PLANT ENVIRONMENTAL GROWTH CHAMBERS (TFI-8000906)*; 12 MONTHS $14,620

WESTERN MICHIGAN UNIVERSITY

BERNSTEIN, EUGENE M; *EQUIPMENT FOR HEAVY ION-ATOM COLLISION STUDIES (TFI-8005847)*; 12 MONTHS $6,050

MINNESOTA

COLLEGE OF ST CATHERINE

GOTTFRIED, BRADLEY M; *EQUIPMENT FOR RESEARCH ON VOCALIZATIONS IN ANTI-PREDATOR AGGRESSION (TFI-8010620)*; 12 MONTHS $8,679

ST OLAF COLLEGE

HARDGROVE, GEORGE L; *ACQUISITION OF A VARIABLE TEMPERATURE AND 19F FLUORINE OBSERVATION NUCLEAR MAGNETIC RESONANCE ACCESSORIES (TFI-7922929)*; 12 MONTHS $9,165

UNIVERSITY OF MINNESOTA AT DULUTH

THOMPSON, LARRY C; *ACQUISITION OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (TFI-7925591)*; 12 MONTHS $24,995

MISSISSIPPI

UNIVERSITY OF SOUTHERN MISSISSIPPI

GRIFFIN, ANSELM C; *DIFFERENTIAL SCANNING CALORIMETER FOR INVESTIGATION OF LIQUID CRYSTALLINE MATERIALS (TFI-8017753)*; 12 MONTHS $24,055

MISSOURI

SOUTHEAST MISSOURI STATE UNIVERSITY

LOWELL, GARY R; *EQUIPMENT FOR MINERALOGICAL AND PETROLOGICAL STUDIES (TFI-8012986)*; 12 MONTHS $24,782

STEPHENS COLLEGE

ANDERSON, HAROLD; *EQUIPMENT FOR TRACE ELEMENT ANALYSIS OF BIOMEDICAL SAMPLES VIA NEUTRON ACTIVATION (TFI-8011274)*; 12 MONTHS $19,500

UNIVERSITY OF MISSOURI, ST LOUIS

LARSEN, DAVID W; *DATA SYSTEM FOR NUCLEAR MAGNETIC RESONANCE INVESTIGATIONS OF NON-AQUEOUS LYOTROPIC LIQUID CRYSTALLINE PHRASES (TFI-8010844)*; 12 MONTHS $25,000

FELDMAN, BERNARD J; *ACQUISITION OF HELIUM LEAK DETECTOR (TFI-8016588)*; 12 MONTHS $13,605

NEW JERSEY

DREW UNIVERSITY

POLLOCK, LELAND W; *OPTICAL EQUIPMENT IN SUPPORT OF RESEARCH ON THE PHYLUM TARDIGRADA (TFI-7926688)*; 12 MONTHS $12,323

KEAN COLLEGE OF NEW JERSEY

BARDELL, DAVID; *EQUIPMENT FOR A COMPARATIVE STUDY OF THE CYTOPATHIC EFFECT OF NONONCOGENIC AND ONCOGENIC ADENOVIRUSES (TFI-8018022)*; 12 MONTHS $11,316

NEW YORK

COLGATE UNIVERSITY

APRIL, RICHARD H; *X-RAY FLUORESCENCE (XRF) SPECTROMETER FOR RESEARCH AND EDUCATION (TFI-7921661)*; 12 MONTHS $25,000

COLLEGE AT BROCKPORT

SOUTHWICK, EDWARD E; *RESPIRATORY METABOLISM RESEARCH EQUIPMENT (TFI-7922925)*; 12 MONTHS $19,152

COLLEGE AT CORTLAND

GATTO, LOUIS A; *EQUIPMENT FOR RESEARCH ON THE AUTONOMIC MODULATION OF TRACHEAL GOBLET CELLS (TFI-8007314)*; 12 MONTHS $14,774

HOBART AND WILLIAM SMITH COLLEGES

CRAIG, DAVID W; *EQUIPMENT FOR REGULATORY PROPERTIES OF RABBIT MUSCLE PHOSPHOFRUCTOKINASE (TFI-8000290)*; 12 MONTHS $12,120

KISH, VALERIE M; *EQUIPMENT FOR RESEARCH ON CELLULAR NUCLEOPROTEINS AND REGULATION OF GENE EXPRESSION (TFI-8014955)*; 12 MONTHS $8,836

HOFSTRA UNIVERSITY

PHILLIPS, CARLETON J; *RESEARCH EQUIPMENT FOR COMPARATIVE QUANTITATIVE ANALYSIS OF CELLULAR ULTRASTRUCTURE (TFI-8018653)*; 12 MONTHS $24,890

GRIMES, GARY W, DEARLOVE, GEORGE E, AND HARRIS, CLIFTON R; *ACQUISITION OF RESEARCH PHOTOMICROSCOPE (TFI-8018971)*; 12 MONTHS $23,225

ITHACA COLLEGE

PASTERNACK, ROBERT F; *EQUIPMENT FOR STUDY OF RAPID REACTIONS IN AN ANAEROBIC ENVIRONMENT (TFI-8001161)*; 12 MONTHS $25,000

EBERHARD, ANATOL; *EQUIPMENT FOR STUDY OF BACTERIAL BIOLUMINESCENCE (TFI-8009456)*; 12 MONTHS $23,400

JOHN JAY COLLEGE OF CRIMINAL JUSTICE

KOBILINSKY, LAWRENCE, AND DEFOREST, PETER R; *EQUIPMENT FOR RESEARCH ON DETECTION OF BLOOD GROUP ANTIGENS (TFI-8016783)*; 12 MONTHS $20,098

MANHATTANVILLE COLLEGE

NAPOLITANO, RAYMOND L; *EQUIPMENT FOR IMMUNOASSAY OF GENDER IN MONOMORPHIC AVIAN SPECIES (TFI-8006651)*; 12 MONTHS $16,395

PACE UNIVERSITY-PLEASANTVILLE-BRIARCLIFF CAMPUS

VENTURA, WILLIAM P; *PURCHASE OF EQUIPMENT FOR RESEARCH ON MAMMALIAN FERTILITY (TFI-7921662)*; 12 MONTHS $13,712

SARAH LAWRENCE COLLEGE

BREWER, DAVID R; *FLUORIMETER FOR THE DETERMINATION OF CHEMILUMINESCENT QUANTUM YIELDS FOR DIOXETANES (TFI-8018968)*; 12 MONTHS $18,700

VASSAR COLLEGE

TUCKER, EDWARD B; *EQUIPMENT FOR RESEARCH ON PLANT INTERCELLULAR COMMUNICATIONS (TFI-8011271)*; 12 MONTHS $24,592

YESHIVA UNIVERSITY

KNECHT, MARGARETE E; *ULTRACENTRIFUGE FOR RESEARCH ON RESTORATION OF GROWTH CONTROL IN CANCER CELLS (TFI-8006652)*; 12 MONTHS $22,743

NORTH CAROLINA

APPALACHIAN STATE UNIVERSITY

BRIGNER, WILLARD L; *ACQUISITION OF TACHISTOSCOPE AND ACCESSORIES (TFI-7923687)*; 12 MONTHS $11,750

BRIGNER, WILLARD L; *TACHISTOSCOPE AND ACCESSORIES (TFI-7923687 A01)*; 12 MONTHS $1,300

DAVIDSON COLLEGE

SCHUH, MERLYN D; *ACQUISITION OF RESEARCH EQUIPMENT FOR VAPOR PHASE PHOTOCHEMISTRY (TFI-7923167)*; 18 MONTHS $25,000

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

RILLEMA, D PAUL; *ACQUISITION OF SPECTROPHOTOMETER (TFI-8012981)*; 12 MONTHS $18,252

WAKE FOREST UNIVERSITY

JACKELS, SUSAN C; *EQUIPMENT TO STUDY MAGNETIC SUSCEPTIBILITIES OF SUBSTITUTED MACROCYLIC COMPLEXES (TFI-8008170)*; 12 MONTHS $7,500

JACKELS, SUSAN C; *EQUIPMENT TO STUDY MAGNETIC SUSCEPTIBILITIES OF SUBSTITUTED MACROCYLIC COMPLEXES (TFI-8008170 A01)*; $2,300

SHIELDS, HOWARD W; *EQUIPMENT FOR ELECTRON PARAMAGNETIC RESONANCE DATA ACQUISITION SYSTEM (TFI-8019547)*; 12 MONTHS $19,000

WESTERN CAROLINA UNIVERSITY

PROCHASKA, FRANK T; *EQUIPMENT FOR INFRARED AND VISIBLE-ULTRAVIOLET SPECTROSCOPIC STUDIES (TFI-8007553)*; 12 MONTHS $8,100

BACON, J R; *EQUIPMENT FOR ATOMIC ABSORPTION SPECTROPHOTOMETRY (TFI-8007793)*; 12 MONTHS $24,956

WALLACE, JAMES W; *ACQUISITION OF SPECTROMETER FOR BOTANICAL RESEARCH (TFI-8011237)*; 12 MONTHS $17,483

OHIO

BOWLING GREEN STATE UNIVERSITY

DALTON, J C, AND NECKERS, DOUGLAS C; *EQUIPMENT FOR PHOTOCHEMICAL AND PHOTOPHYSICAL STUDIES (TFI-8010630)*; 12 MONTHS $23,680

COLLEGE OF WOOSTER

POWELL, DAVID L; *ACQUISITION OF AN ELECTRONIC SPECTROPHOTOMETER (TFI-8011940)*; 12 MONTHS $19,100

DENISON UNIVERSITY

HOFFMAN, WILLIAM A; *ACQUISITION OF EQUIPMENT FOR IDENTIFICATION OF ORGANIC CONSTITUENTS IN RAIN/LEAF INTERACTIONS (TFI-8005942)*; 12 MONTHS $13,450

HIRAM COLLEGE

WEPFER, GORDON G; *EQUIPMENT FOR STUDIES OF CLUSTERS AND DEFECTS IN SI AND SIO2 (TFI-8010629)*; 12 MONTHS $24,964

MIAMI UNIVERSITY CENTRAL OFFICE

PACEY, GILBERT E; *ACQUISITION OF RESEARCH EQUIPMENT FOR ANALYTICAL CHEMISTRY (TFI-8001911)*; 12 MONTHS $20,000

VAUGHN, JACK C; *ACQUISITION OF A ULTRACENTRIFUGE FOR GENOME STRUCTURE STUDIES (TFI-8002341)*; 12 MONTHS $18,509

CHANG, LUKE L; *ACQUISITION OF A LOW-TEMPERATURE ASHER AND A SAMPLE GRINDING SET (TFI-8002342)*; 12 MONTHS $15,650

SCHOLTEN, PAUL D; *HIGH-TEMPERATURE, CONTROLLED-ATMOSPHERE FURNACE FACILITY (TFI-8003386)*; 12 MONTHS $15,958

WINNER, ROBERT W; *ACQUISTION OF ATOMIC ABSORPTION SPECTROPHOTOMETER (TFI-8004830)*; 12 MONTHS $18,300

JAWORSKI, JAN G; *ACQUISITION OF EQUIPMENT FOR RESEARCH ON BIOSYNTHESIS OF LINOLENIC ACID IN BARLEY (TFI-8008698)*; 12 MONTHS $15,455

OHIO WESLEYAN UNIVERSITY

MILLER, THEODORE L; *ACQUISITION OF FLUORESCENCE SPECTROPHOTOMETER (TFI-7923794)*; 12 MONTHS $9,200

STEGE, THOMAS E, AND MISCHKE, CHARLES F; *ACQUISITION OF LIQUID SCINTILLATION SPECTROPHOTOMETER (TFI-8018638)*; 12 MONTHS $18,000

OKLAHOMA

BETHANY-NAZARENE COLLEGE

WALKER, KEITH; *INSTRUMENTATION FOR DETECTION OF LOW LEVEL EMISSION SPECTRA (TFI-8015519)*; 12 MONTHS $13,015

OREGON

PORTLAND STATE UNIVERSITY

NEFF, THOM L; *EQUIPMENT FOR USE IN DEVELOPMENT OF AN EARLY WARNING GEOTECHNICAL MONITORING SYSTEM (TFI-8019688)*; 12 MONTHS $13,217

REED COLLEGE

STEARNS, STEPHEN C, GWILLIAM, GILBERT F, RUSSELL, PETER J, AND ARCH, STEPHEN W; *COMPUTER SYSTEM FOR BIOLOGICAL RESEARCH (TFI-8007790)*; 12 MONTHS $24,977

RUSSELL, PETER J; *PURCHASE OF CENTRIFUGE ROTORS (TFI-8007801)*; 12 MONTHS $13,140

PENNSYLVANIA

BUCKNELL UNIVERSITY

NICKELSEN, RICHARD P; *EQUIPMENT FOR GEOLOGICAL RESEARCH (TFI-8006653)*; 12 MONTHS $21,268

DICKINSON COLLEGE

BRENNAN, THOMAS; *SPECTROPHOTOMETER TO STUDY CHLOROPLAST ENZYME ACTIVITY (TFI-8015520)*; 12 MONTHS $9,790

DREXEL UNIVERSITY

GEALT, MICHAEL A; *EQUIPMENT FOR LIPID RESEARCH (TFI-8006391)*; 12 MONTHS $19,129

HERCZFELD, PETER R; *MULTIUSER COMPUTERIZED DATA ACQUISITION AND GRAPHIC DISPLAY SYSTEM (TFI-8006483)*; 12 MONTHS $25,000

ELIZABETHTOWN COLLEGE

SCHAEFFER, CHARLES D; *ACQUISITION OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (TFI-8005698)*; 12 MONTHS $25,600

FRANKLIN AND MARSHALL COLLEGE

SEEDS, MICHAEL A; *A MICROCOMPUTER DATA ACQUISITION SYSTEM FOR ASTRONOMICAL PHOTOMETRY (TFI-8014540)*; 12 MONTHS $3,307

JUNIATA COLLEGE

GOOCH, JAMES L; *ACQUISITION OF EQUIPMENT TO STUDY GENETIC, PHENETIC, AND BEHAVIORAL DIFFENTIATION (TFI-8007552)*; 12 MONTHS $10,287

FISHER, TOM L; *ACQUISITION OF FLUORESCENCE SPECTROPHOTOMETER (TFI-8017677)*; 12 MONTHS $16,500

LAFAYETTE COLLEGE

WALSH, JERRY L; *ACQUISITON OF UV-VISIBLE SPECTROPHOTOMETER (TFI-8012980)*; 12 MONTHS $10,500

SWARTHMORE COLLEGE

KAHLER, CAROL C; *EQUIPMENT FOR CROSSED MOLECULAR BEAM STUDY OF 1,2 DIOXETANE DECOMPOSITION (TFI-8018020)*; 12 MONTHS $25,000

UNIVERSITY OF PITTSBURGH

TRIMITSIS, GEORGE B; *ACQUISITION OF A LIQUID CHROMATOGRAPH (TFI-8000011)*; 24 MONTHS $24,475

RHODE ISLAND

RHODE ISLAND COLLEGE

GREENE, DAVID L; *ACQUISITION OF RESEARCH GRADE UV-VIS-NIR SPECTROPHOTOMETER (TFI-8017676)*; 12 MONTHS $25,000

SOUTH CAROLINA

COLLEGE OF CHARLESTON

LONDON, JAMES B; *ACQUISITION OF COMPUTER EQUIPMENT (TFI-8016401)*; 12 MONTHS $10,874

ERSKINE COLLEGE AND SEMINARY

LOWRY, B A; *ACQUISITION OF EQUIPMENT FOR LIQUID CRYSTAL VISCOSITY RESEARCH (TFI-8003669)*; 12 MONTHS $24,886

FURMAN UNIVERSITY

ARRINGTON, CHARLES A; *ACCESSORIES FOR A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (TFI-8000924)*; 12 MONTHS $25,000

KUBLER, DONALD G; *AUTOMATIC POLARIMETER AND ACCESSORIES (TFI-8008434)*; 12 MONTHS $23,390

KNIGHT, LON B; *ACQUISITION OF HELIUM REFRIGERATOR AND RELATED RESEARCH EQUIPMENT (TFI-8017525)*; 12 MONTHS $24,650

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA-BEAUFORT CAMPUS

CAINE, EDSEL A; *ACQUISITION OF MICROSCOPIC EQUIPMENT FOR RESEARCH ON CRUSTACEA (TFI-8002609)*; 12 MONTHS $9,769

SOUTH DAKOTA

BLACK HILLS STATE COLLEGE

THOMASSON, JOSEPH R, ALEX, ROBERT A, AND DYCHE, STEVEN E; *RESEARCH EQUIPMENT - SCANNING ELECTRON MICROSCOPE (TFI-8000918)*; 12 MONTHS $24,900

SOUTH DAKOTA STATE UNIVERSITY

HECHT, HARRY G; *EQUIPMENT FOR STUDY OF PLATINUM (II) AMINES (TFI-8017167)*; 12 MONTHS $23,670

TENNESSEE

UNIVERSITY OF TENNESSEE AT CHATTANOOGA

BLACK, WILLIAM W; *NEUTRON ACTIVATION EQUIPMENT FOR GEOCHEMICAL STUDIES (TFI-8019268)*; 12 MONTHS $25,000

UNIVERSITY OF THE SOUTH

LOWE, JAMES N; *ACQUISITION OF SCANNING FLOURESCENCE SPECTROMETER (TFI-8008650)*; 12 MONTHS $16,200

TEXAS

ABILENE CHRISTIAN UNIVERSITY

SCHULZE, PAUL D; *EQUIPMENT FOR X-RAY PHOTOELECTRON STUDIES OF NITROGEN OXIDES ON RHENIUM (TFI-8014178)*; 12 MONTHS $16,000

MCMURRY COLLEGE

KLASSEN, DAVID M; *EQUIPMENT FOR SPECTROSCOPIC PROPERTIES OF RUTHENIUM, RHODIUM, AND OSMIUM COMPLEXES (TFI-8008960)*; 12 MONTHS $13,590

OUR LADY OF THE LAKE UNIVERSITY OF SAN ANTONIO

BELK, DENTON; *EQUIPMENT FOR CRUSTACEAN RESEARCH (TFI-8007803)*; 12 MONTHS $5,242

PAN AMERICAN UNIVERSITY

SCHULTZ, T W; *PURCHASE OF A SPECTROPHOTOMETER (TFI-7920910)*; 12 MONTHS $8,141

SOUTHWEST TEXAS STATE UNIVERSITY

RUDZINSKI, WALTER; *EQUIPMENT FOR ION PAIR CHROMATOGRAPHY (TFI-8018967)*; 12 MONTHS $23,895

TRINITY UNIVERSITY

PLUMMER, B F; *THE PURCHASE OF A FLUORESCENCE SPECTROPHOTOMETER (TFI-7924308)*; 24 MONTHS $24,909

UNIV OF TEXAS AT ARLINGTON

BLAKE, DANIEL M; *PURCHASE OF CALORIMETER SYSTEM FOR STUDY OF THE OXIDATIVE ADDITION REACTION (TFI-8000905)*; 12 MONTHS $12,846

POMERANTZ, MARTIN; *PURCHASE OF CHROMATOGRAPHY EQUIPMENT (TFI-8007514)*; 12 MONTHS $20,200

UNIV OF TEXAS AT DALLAS

FREDERICKSON, C J; *RESEARCH MICROSCOPE AND PHOTOGRAPHY SYSTEM (TFI-8007789)*; 12 MONTHS $19,652

UTAH

UTAH STATE UNIVERSITY

BEZDEK, JAMES C, CORAY, CHRIS, GUNDERSON, ROBERT W, WATSON, JAMES D, AND WINDHAM, MICHAEL; *AN INTERACTIVE GRAPHIC DISPLAY SYSTEM IN PATTERN RECOGNITION (TFI-7926642)*; 12 MONTHS $22,990

VERMONT

LYNDON STATE COLLEGE

KENT, SAMUEL S; *ACQUISITION OF EQUIPMENT FOR RESEARCH ON PHOTOSYNTHESIS (TFI-8017458)*; 12 MONTHS $24,990

VIRGINIA

GEORGE MASON UNIVERSITY

MIELCZAREK, EUGENIE V; *EQUIPMENT FOR MOSSBAUER SPECTROSCOPY OF BIOLOGICAL MOLECULES (TFI-7924421)*; 12 MONTHS $9,225

HOLLENBECK, ALBERT R; *A LABORATORY BASED COMPUTING SYSTEM FOR PSYCHOLOGICAL APPLICATIONS (TFI-8000907)*; 12 MONTHS $24,680

MARY BALDWIN COLLEGE

PINKSTON, MARGARET F; *EQUIPMENT FOR STUDY OF PLASMA LIPOPROTEINS IN DELAYED SENSITIVITY TO FOODS (TFI-8002621)*; 12 MONTHS $12,410

OLD DOMINION UNIVERSITY

PRABHAKARAN, R; *EQUIPMENT FOR APPLICATION OF PHOTOELASTICITY TO COMPOSITE MODEL MATERIALS (TFI-8016606)*; 12 MONTHS $24,615

YUAN, JAMES H; *ACQUISITION OF COMPUTER-INTERFACED SPECTROPHOTOMETER (TFI-8017678)*; 12 MONTHS $24,720

UNIVERSITY OF RICHMOND

TOPHAM, RICHARD W; *PURCHASE OF AN ULTRACENTRIFUGE (TFI-7911108)*; 24 MONTHS $20,759

VIRGINIA MILITARY INSTITUTE

SCHREIBER, HENRY D; *SPECTROPHOTOMETER FOR RESEARCH ON OPTICAL PROPERTIES OF SYNTHETIC GLASSES (TFI-8009431)*; 12 MONTHS $24,200

WISCONSIN

MARQUETTE UNIVERSITY

NAKAMOTO, KAZUO; *ACQUISITION OF INFRARED SPECTROPHOTOMETER (TFI-8005111)*; 12 MONTHS $25,000

MUNROE, STEPHEN H, FITTS, ROBERT H, AND KUMARAN, A K; *ACQUISITION OF LIQUID SCINTILLATION COUNTING EQUIPMENT (TFI-8007802)*; 12 MONTHS $21,375

POLLARD, BRUCE D, SCHRADER, DAVID M, AND STEINMETZ, MARK G; *PHOTON COUNTING/TIME RESOLVING SYSTEM (TFI-8008437)*; 12 MONTHS $23,817

SADOWSKI, JAMES A, AND KLITGAARD, HOWARD M; *HIGH PERFORMANCE LIQUID CHROMATOGRAPHY SYSTEM TO SUPPORT MULTIDISCIPLINARY BASIC SCIENCE RESEARCH (TFI-8008953)*; 12 MONTHS $24,715

NAKAMOTO, KAZUO, AND SCHRADER, DAVID M; *A HELIUM REFRIGERATOR FOR MATRIX ISOLATION STUDIES (TFI-8010841)*; 12 MONTHS $14,232

UNIVERSITY OF WISCONSIN-MADISON

SAMIMI, BEHZAD S, *CONSTRUCTION OF DUST GENERATOR FOR RESPIRATOR ENGINEERING RESEARCH (TFI-7925578)*; 12 MONTHS $8,419

UNIVERSITY OF WISCONSIN-PARKSIDE

CHEN, CHONG M, AND MARRON, MICHAEL T; *ACQUISITION OF LIQUID SCINTILLATION COUNTING SYSTEM (TFI-8010628)*; 12 MONTHS $19,100

UNIVERSITY OF WISCONSIN-SUPERIOR

BAHNICK, DONALD A; *EQUIPMENT FOR LAKE SUPERIOR RESEARCH VESSEL (TFI-8017052)*; 12 MONTHS $16,538

U.S./U.S.S.R. COOPERATIVE RESEARCH

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

BAILEY, JAMES E; *STUDIES OF THE DYNAMICS OF INDIVIDUAL CELLS AND MICROBIAL POPULATIONS (CPE-8011454*)*; 12 MONTHS $25,000

SRI INTERNATIONAL

FOSTER, RICHARD B; *SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES (COO-7818699 A03*)*; 16 MONTHS $156,856

FOSTER, RICHARD B; *SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES (USR-7818699 A04)*; 11 MONTHS $50,890

UNIVERSITY OF CALIFORNIA, LOS ANGELES

BUNSHAH, ROINAN F; *STRUCTURE/PROPERTY RELATIONSHIPS IN MICROLAMINATE METAL MATRIX COMPOSITES (DMR-7721391 A02*)*; 6 MONTHS $20,635

COLORADO

NATIONAL BUREAU OF STANDARDS-NATIONAL BUREAU OF STANDARDS-BOULDER

REED, RICHARD P; *USA/USSR SCIENCE AND TECHNOLOGY EXCHANGE PROGRAM OF THE USA/USSR WORKING GROUP ON ELECTROMETALLURGY CRYOGENIC MATERIALS AND WELDS (DMR-7924269 A01*)*; 12 MONTHS $125,000

DELAWARE

UNIVERSITY OF DELAWARE

STREICHER, MICHAEL A; *A COMPARISON OF NON-ELECTROLYTIC AND ELECTROCHEMICAL CORROSION (DMR-8012197*)*; 8 MONTHS $60,000

DISTRICT OF COLUMBIA

AMERICAN CHEMICAL SOCIETY (ACS)

BIXLER, GORDON H; *ADMINISTRATION OF TRAVEL AND VISITING ARRANGEMENTS FOR SOVIET PARTICIPANTS IN THE U. S. - U. S. S. R. JOINT PROGRAM IN CHEMICAL CATALYSIS (CHE-7818069 A01*)*; 6 MONTHS $16,274

DEPARTMENT OF STATE

REINHOLD, FRANKLYN W; *SUPPORT FOR LANGUAGE SERVICES FOR INTERNATIONAL COOPERATIVE SCIENTIFIC RESEARCH PROGRAMS (COO-7717618 A06)*; 12 MONTHS $75,000

ILLINOIS

NORTHWESTERN UNIVERSITY

BANKOFF, S G; *FRAGMENTATION OF LIQUID DROPS BEHIND A PRESSURE SHOCK FRONT (CME-8017842*)*; 12 MONTHS $52,986

MARYLAND

MARTIN MARIETTA CORPORATION-MARTIN MARIETTA LABORATORY

PICKENS, JOSEPH R; *THE MECHANISMS AND PHENOMENOLOGY OF EMBRITTLEMENT OF ULTRAFINE-GRAINED ALUMINUM ALLOYS (DMR-8013457*)*; 8 MONTHS $60,000

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SZEKELY, JULIAN; *MATHEMATICAL AND PHYSICAL MODELLING OF THE ELECTROSLAG REMELTING PROCESS (DMR-7924267 A01*)*; 9 MONTHS $49,000

FLEMINGS, MERTON C; *ELECTROSLAG CASTINGS (DMR-7924268 A01*)*; 8 MONTHS $55,000

ROHSENOW, WARREN M, AND EL-MASRI, M A; *CRITICAL HEAT FLUX FOR GRAVITY-DRIVEN LIQUID FILMS (CME-8017416*)*; 12 MONTHS $57,025

UNIVERSITY OF MASSACHUSETTS, AMHERST

THORNE, CURTIS B; *CHROMOSOMAL MAPPING AND PHAGE CONVERSION IN BACILLUS THURINGIENSIS (PCM-7921851*)*; 24 MONTHS $30,000

MICHIGAN

UNIVERSITY OF MICHIGAN

PEHLKE, ROBERT D; *PLASMA ARC REMELTING-GAS-METAL REACTIONS AND HEAT TRANSFER (DMR-8007060*)*; 12 MONTHS $58,000

NEW YORK

RENSSELAER POLYTECHNIC INSTITUTE

DUQUETTE, DAVID J, STOLOFF, NORMAN S, AND HUDSON, JOHN B; *HYDROGEN EMBRITTLEMENT ON NICKEL UNDER MONOTONIC AND CYCLIC LOADING (DMR-8009241*)*; 8 MONTHS $60,000

NIPPES, ERNEST F; *HOT CRACKING IN AUSTENITIC STAINLESS STEEL WELDMENTS (DMR-8016498*)*; 12 MONTHS $34,897

STATE UNIVERSITY AT STONY BROOK

CESS, ROBERT D; *STUDIES IN RADIATION HEAT TRANSFER (CME-8012954*)*; 12 MONTHS $33,989

NORTH CAROLINA

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

ROSEFIELDE, STEVEN, AND LOVELL, C A KNOX; *COLLABORATIVE RESEARCH ON APPLYING NORMATIVE AND STOCHASTIC FRONTIER PRODUCTION AND COST ESTIMATION METHODS TO THE STUDY OF ENTERPRISE EFFICIENCY (MCS-8007568*)*; 12 MONTHS $30,482

OHIO

CASE WESTERN RESERVE UNIVERSITY

EBERT, LYNN J; *RISIDUAL STRESS EFFECTS IN ORIENTED FIBER COMPOSITES UNDER COMPLEX USE CONDITIONS AND THE REDUCTION OF THE DELETERIOUS EFFECTS (DMR-7805724 A01*)*; $9,275

PENNSYLVANIA

LEHIGH UNIVERSITY

NOTIS, MICHAEL R; *INTERFACE MOTION AND STRESS DURING SOLID STATE JOINING INTERNARY SYSTEMS (DMR-7808563 A01*)*; $2,468

TEXAS

UNIV OF TEXAS AT AUSTIN

MC MAINS, HARVEY J; *COLLABORATIVE RESEARCH ON SCIENTIFIC AND TECHNICAL COOPERATION IN THE FIELD OF APPLICATION OF COMPUTERS TO MANAGEMENT (MCS-8013685*)*; 12 MONTHS $50,000

DALE, ALFRED G; *COLLABORATIVE RESEARCH ON SCIENTIFIC AND TECHNICAL COOPERATION IN THE FIELD OF APPLICATION OF COMPUTERS TO MANAGEMENT (MCS-8016662*)*; 12 MONTHS $50,090

NSF PLANNING AND EVALUATION

DISTRICT OF COLUMBIA

AMERICAN COUNCIL ON EDUCATION

PELTASON, JACK W; *PUBLIC CRYPTOGRAPHY STUDY GROUP (CDP-8006675)*; 12 MONTHS $32,558

PELTASON, JACK W; *PUBLIC CRYPTOGRAPHY STUDY GROUP (CDP-8006675 A01)*; $12,400

GEORGE WASHINGTON UNIVERSITY

TEICH, ALBERT H; *WORKSHOP ON THE GROWING ROLE OF RESEARCH CENTERS AND NONFACULTY RESEARCHERS IN ACADEMIC SCIENCE (CDP-7911815 A02)*; $2,500

NATIONAL ACADEMY OF ENGINEERING

PERKINS, COURTLAND; *INDUSTRIAL INNOVATION AND PUBLIC POLICY OPTIONS (CDP-8003605*)*; 12 MONTHS $10,000

NATIONAL ACADEMY OF SCIENCES

GREEN, ROBERT E; *SUPPORT OF THE COMMITTEE ON SCIENCE AND PUBLIC POLICY (PLN-7913104 A01)*; 12 MONTHS $135,000

GOSLIN, DAVID A; *STUDY ASSESSING THE VALUE, SIGNIFICANCE AND SOCIAL UTILITY OF BASIC RESEARCH IN THE SOCIAL SCIENCES (PLN-7926467*)*; 24 MONTHS $50,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

GREEN, ROBERT E; *STUDY OF THE FEDERAL ALLOCATION PROCESS FOR FUNDING SCIENTIFIC RESEARCH (PLN-7522600 A08)*; 12 MONTHS $9,000

KELLY, WILLIAM C; *SCIENCE AND ENGINEERING EDUCATION FOR LONG-TERM NATIONAL NEEDS (PRA-8015304*)*; 10 MONTHS $30,800

NATIONAL COMMISSION ON RESEARCH

PINGS, CORNELIUS J; *NATIONAL COMMISSION ON RESEARCH (CDP-7926386)*; 6 MONTHS $25,000

SCIENCE PROGRAM GROUP INC

PROWITT, DAVID; *PRODUCTION OF THE 12TH REPORT OF THE NATIONAL SCIENCE BOARD (NSB-7926861 A01)*; $18,303

TRAVEL AWARD

CROWLEY, JOHN C; *TRAVEL TO ATTEND THE ORG. FOR ECONOMIC CORP. & DEVELOPMENT, 5TH GENERAL CONFERENCE OF MEMBER INSTITUTIONS OR INST. MGMT. IN HIGHER EDUCATION; PARIS, FRANCE, SEPTEMBER 8 - 10, 1980 (CDP-8025026)*; 6 MONTHS $679

MARYLAND

NATIONAL BUREAU OF STANDARDS GRADUATE SCHOOL

LIDE, DAVID R; *STANDARD REFERENCE DATA PROJECTS (CDP-8005187)*; 18 MONTHS $250,000

MASSACHUSETTS

UNIVERSITY OF MASSACHUSETTS, AMHERST

WEINBERG, MICHAEL; *IPA MOBILITY ASSIGNMENT (WEINBERG, MICHAEL) (CDP-7824370 A03)*; 24 MONTHS $2,278

WEINBERG, MICHAEL; *IPA MOBILITY ASSIGNMENT (MICHAEL WEINBERG) (CPP-7824370 A04)*; 1 MONTHS $2,746

NEW JERSEY

COMPUTER HORIZONS INC

NARIN, FRANCIS; *PEER REVIEW OF RATINGS FROM EVALUATIVE BIBLIOMETRICS (CDP-7682854 A01)*; $2,136

NARIN, FRANCIS; *ANALYSIS OF THE CONTRIBUTION OF SCIENTIFIC INSTRUMENTATION TO HIGHLY CITED RESEARCH (PLN-7927181)*; 10 MONTHS $45,415

NEW YORK

NEW YORK UNIVERSITY

FUSFELD, HERBERT I; *UNIVERSITY/INDUSTRY COOPERATION: A PROPOSAL TO EXAMINE EXISTING MECHANISMS (NSB-8024731)*; 16 MONTHS $173,822

OHIO

OHIO STATE UNIVERSITY

BAUGHMAN, GEORGE W; *DEVELOPMENTAL WORK ON ACADEMIC PRICE INDEXES (CDP-8017815)*; 18 MONTHS $125,000

PENNSYLVANIA

INSTITUTE FOR SCIENTIFIC INFORMATION INC

MALIN, MORTON V; *LICENSING AGREEMENT FOR USE OF SCIENCE CITATION INDEX DATA BASE (CDP-7806769 A03)*; 12 MONTHS $10,000

MALIN, MORTON V; *PROCESSING FUNDING ACKNOWLEDGEMENTS INFORMATION TO SUPPLEMENT THE SCIENCE CITATION INDEX AND SOCIAL SCIENCES CITATION INDEX MAGNETIC TAPE DATA BASE (CDP-8007245)*; 13 MONTHS $72,000

PENNSYLVANIA STATE UNIVERSITY

FRIEDMAN, ROBERT L; *THE ROLE OF UNIVERSITY ORGANIZED RESEARCH UNITS IN ACADEMIC SCIENCE (CDP-7900665)*; 18 MONTHS $168,915

VIRGINIA

ASSOCIATION FOR ACADEMIC HEALTH CENTERS

AKIN, GWYNN C; *ADMINISTRATIVE AND PROFESSIONAL SUPPORT SERVICES FOR THE PREPARATION OF THE TWELFTH NATIONAL SCIENCE BOARD REPORT (NSB-7926501 A01)*; $16,108

AKIN, GWYNN C; *ADMINISTRATIVE AND PROFESSIONAL SUPPORT SERVICES FOR THE PREPARATION OF THE TWELFTH NSB REPORT (NSB-7926501 A02)*; 6 MONTHS $73,592

ALAN T. WATERMAN AWARD

MASSACHUSETTS

HARVARD UNIVERSITY

SCHWITTERS, ROY F; *ALAN T. WATERMAN AWARD (PHY-8018718*)*; 36 MONTHS $150,000

U.S./CHINA COOPERATION IN BASIC SCIENCES

DISTRICT OF COLUMBIA

COURTESY TRAVEL SERVICE

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (INT-8018782*)*; 12 MONTHS $100,000

DEPARTMENT OF COMMERCE

BARUCH, JORDAN J; *SYMPOSIUM IN CHINA ON SYSTEMS ANALYSIS (USC-8026437)*; 12 MONTHS $44,412

INTERNATIONAL COMMUNICATION AGENCY

TSUKAYAMA, ROBERT A; *SUPPORT OF SCIENTISTS FOR RESEARCH IN THE PEOPLE'S REPUBLIC OF CHINA (USC-8019442)*; 18 MONTHS $300,000

NATIONAL ACADEMY OF SCIENCES

BULLOCK, MARY B; *A SELECTIVE REVIEW OF CHINA'S SCIENCE AND TECHNOLOGY (USC-7720968 A02)*; 6 MONTHS $23,000

EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESEARCH

CALIFORNIA

CLAREMONT GRADUATE SCHOOL

DREW, DAVID E; *IMPROVING SCIENCE QUALITY IN LESS DEVELOPED RESEARCH SETTINGS (CDP-7923372)*; 24 MONTHS $77,598

MAINE

UNIVERSITY OF MAINE, ORONO

BIXLER, HARRIS J; *AN EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESEARCH: PHASE B IMPLEMENTATION PLAN IN MAINE (EXP-8011448)*; 12 MONTHS $776,999

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

DURIG, JAMES R; *AN EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESEARCH: PHASE B IMPLEMENTATION PLAN IN SOUTH CAROLINA (EXP-8011451)*; 12 MONTHS $502,396

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

THOMAS, JOHN A; *AN EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESEARCH: PHASE B IMPLEMENTATION PLAN IN WEST VIRGINIA (EXP-8011453)*; 12 MONTHS $602,501

SCIENCE EDUCATION

SCIENCE EDUCATION

ALABAMA

ALABAMA AGRICULTURAL AND MECHANICAL UNIVERSITY

SHIPMAN, JERRY R; *STUDENT SCIENCE TRAINING (SPI-7925155*)*; 10 MONTHS $21,400

BUCKALEW, LOUIS W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000346)*; 18 MONTHS $19,869

JONES, JEANETTE; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010745)*; 42 MONTHS $66,780

SHIPMAN, JERRY R; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014824)*; 16 MONTHS $13,500

AUBURN UNIVERSITY

SIMON, MARLLIN L; *STUDENT SCIENCE TRAINING (SPI-7926359)*; 10 MONTHS $19,770

AUBURN UNIVERSITY-AUBURN UNIVERSITY AT MONTGOMERY

RICHARDSON, WILLIAM S; *CONTINUITY IN INSTRUMENTAL ANALYSIS FOR THE STUDENTS OF AUBURN UNIVERSITY AT MONTGOMERY: INTRODUCTION OF NMR SPECTROSCOPY (SER-8015383)*; 30 MONTHS $11,967

BIRMINGHAM SOUTHERN COLLEGE

WAITS, E D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000383)*; 18 MONTHS $13,161

INDIVIDUAL AWARD

WELLS, CATHY T; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013274)*; 42 MONTHS $17,354

CUNNINGHAM, R S; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013280)*; 42 MONTHS $16,792

LAWSON STATE COMMUNITY COLLEGE

KULKARNI, PRAKASH G; *IMPROVED LABORATORY INSTRUCTION IN HUMAN ANATOMY AND PHYSIOLOGY (SER-8001014)*; 30 MONTHS $24,718

LURLEEN B WALLACE STATE JUNIOR COLLEGE

DONALDSON, JAMES C; *IMPROVING SCIENCE AND MATHEMATICS INSTRUCTION THROUGH A COMPETENCY-BASED SCIENCE CURRICULUM (SER-8001349)*; 30 MONTHS $25,000

SAMFORD UNIVERSITY

COX, WILLIAM A; *IMPROVEMENT OF INSTRUCTION IN PHYSIOLOGY (SER-8012858)*; 30 MONTHS $20,000

SELMA UNIVERSITY

RAJANNA, BETTAIYA; *STUDENT SCIENCE TRAINING (SPI-7925233)*; 10 MONTHS $23,630

TUSKEGEE INSTITUTE

WINDHAM, HERMAN L; *STUDENT SCIENCE TRAINING (SPI-7925495*)*; 10 MONTHS $22,670

WINDHAM, HERMAN L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000398)*; 18 MONTHS $20,809

LESTER, WILLIAM L; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010742)*; 42 MONTHS $66,780

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019098)*; 48 MONTHS $7,720

UNIVERSITY OF ALABAMA

HAND, CLIFFORD W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926995)*; 12 MONTHS $19,750

GOODSON, BARBARA E; *STUDENT-ORIGINATED STUDIES (SPI-8004016)*; 12 MONTHS $19,279

OSBORNE, JAMES B; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008193)*; 17 MONTHS $19,986

BAILEY, J E; *LOW SPEED WIN TUNNEL LABORATORY DEVELOPMENT (SER-8013984)*; 30 MONTHS $12,980

UNIVERSITY OF ALABAMA IN BIRMINGHAM

REMMEL, RANDALL J; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926953)*; 12 MONTHS $20,000

KRANNICH, LARRY K; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000154)*; 18 MONTHS $22,500

SUMMERLIN, LEE R; *CAUSE: COMPUTER APPLICATION TO SCIENCE CURRICULA FOR DEVELOPMENT OF TECHNICAL COMPETENCIES (SER-8005404)*; 36 MONTHS $249,908

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019079)*; 60 MONTHS $7,720

UNIVERSITY OF ALABAMA SYSTEM OFFICE

NONE, NONE N; *SUPPORT OF NSF MINORITY GRADUATE FELLOWS (SPI-8019079 A01)*; $7,720

UNIVERSITY OF MONTEVALLO

MERIJANIAN, ARIS; *STUDENT SCIENCE TRAINING (SPI-7925177)*; 10 MONTHS $26,780

ALASKA

NORTON SOUND HEALTH CORPORATION

MCCOMB, STEVE; *SCIENCE AND TECHNOLOGY WORKSHOPS FOR ISOLATED COMMUNITIES IN NORTHWEST ALASKA (OSS-8017508)*; 8 MONTHS $75,681

UNIVERSITY OF ALASKA ANCHORAGE CAMPUS

HANNI, BLAINE R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001250)*; 18 MONTHS $25,398

MACK, JOY K; *STUDENT-ORIGINATED STUDIES (SPI-8004755)*; 12 MONTHS $18,218

UNIVERSITY OF ALASKA-FAIRBANKS-ARCTIC RESEARCH LABORATORY

UNDERWOOD, LAWRENCE, AND BROGAN, JUDITH S; *SCIENCE NEWS-RADIO SPOTS (OSS-7923563)*; 12 MONTHS $47,099

UNIVERSITY OF ALASKA-FAIRBANKS-GEOPHYSICAL INSTITUTE

DAVIS, T NEIL; *ALASKA SCIENCE FORUM (OSS-7917901)*; 12 MONTHS $37,101

UNIVERSITY OF ALASKA-FAIRBANKS

NONE, NONE N; *SUPPORT OF NSF GRADUATE FELLOWS (SPI-8019080)*; 48 MONTHS $7,720

ARIZONA

ARIZONA STATE UNIVERSITY

MC NEILL, BARRY W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926826)*; 12 MONTHS $19,216

TILLERY, BILL W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000076)*; 18 MONTHS $49,963

JANKOWSKI, DANIEL F; *VIDEO-TAPE DEMONSTRATIONS AND EXPERIMENTS IN FLUID MECHANICS (SER-8001339)*; 30 MONTHS $15,030

OLDAKER, LINDA M; *FACTORS INFLUENCING MATHEMATICS PARTICIPATION OF HIGHLY ABLE MEXICAN-AMERICAN ADOLESCENTS (SED-8017768)*; 18 MONTHS $148,966

INDIVIDUAL AWARD

MARTIN, JIM D; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013094)*; 42 MONTHS $29,340

OLSON, LARRY W; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013117)*; 42 MONTHS $10,462

LEAGUE OF WOMEN VOTERS OF PHOENIX

MCNERNEY, GERRY; *WORKSHOPS ON ARIZONA ELECTRIC POWER PRODUCTION AND CONSUMPTION (OSS-7927078)*; 12 MONTHS $40,766

NORTHERN ARIZONA UNIVERSITY

ALLEN, GARY G; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000565)*; 18 MONTHS $50,000

TAMPPARI, RAYMOND P; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008781)*; 12 MONTHS $24,150

PIMA COMMUNITY COLLEGE

HAMLET, CLARE; *PROGRAM AND COURSE DEVELOPMENT FOR SMALL BUSINESS COMPUTER SPECIALIST PROGRAM (SER-8001327)*; 30 MONTHS $23,961

SCOTTSDALE CMTY COLLEGE

WOZNIAK, MATTHEW J; *CAUSE: A MICROCOMPUTER ENHANCED UNDERGRADUATE SCIENCE EDUCATION IMPROVEMENT PROJECT (SER-8004957)*; 36 MONTHS $209,786

SOUTHWEST ENVIRONMENTAL SERVICE

ROBINSON, PRISCILLA G, AND MCCULLOUGH, EDGAR; *WORKSHOPS ON FLOODPLAIN POLICY FOR TUCSON (OSS-7927250)*; 9 MONTHS $44,964

UNIVERSITY OF ARIZONA

STEINBRENNER, ARTHUR H; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000313)*; 18 MONTHS $26,795

ROBSON, JOHN W; *INTRODUCTION OF MICROCOMPUTERS INTO THE ADVANCED UNDERGRADUATE PHYSICS LABORATORY (SER-8001354)*; 30 MONTHS $21,284

SHIRER, DONALD L; *CAUSE: TEACHING LINEAR SYSTEMS ON A MODERN COMPUTER-BASED LEARNING SYSTEM (PLATO) (SER-8004783)*; 36 MONTHS $249,246

DOWNER, NANCY W; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008187)*; 13 MONTHS $19,992

GLATTKE, THEODORE; *COMMUNICATION SCIENCE LABORATORIES (SER-8013978)*; 30 MONTHS $15,295

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019104*)*; 60 MONTHS $7,720

YAVAPAI COLLEGE

MINKLER, LYLE F; *CAUSE: SCIENCE CURRICULUM AND FACILITIES FOR DEVELOPMENTAL EDUCATION (SER-8004773)*; 24 MONTHS $168,354

ARKANSAS

ARKANSAS COLLEGE

MOSLEY, EDWARD; *DESIGN OF A MODULAR MULTI-TRACK BASIC MATHEMATICS COURSE (SER-8001004)*; 30 MONTHS $18,660

UNIVERSITY OF ARKANSAS FAYETTEVILLE

BOWDON, EDWARD K; *STUDENT SCIENCE TRAINING (SPI-7925186)*; 10 MONTHS $13,580

MIRES, KATHRINE C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000080)*; 10 MONTHS $21,231

ORTON, WILLIAM R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000109)*; 18 MONTHS $39,500

BACHA, BILLIE J; *STUDENT-ORIGINATED STUDIES (SPI-8004750)*; 12 MONTHS $13,731

FERGUSON, JAMES A; *EQUIPMENT FOR AGRICULTURAL METEOROLOGY (SER-8013410)*; 30 MONTHS $19,211

SALAMO, GREGORY J; *A LASER PHYSICS EDUCATIONAL LABORATORY (SER-8013797)*; 30 MONTHS $20,000

UNIVERSITY OF ARKANSAS MED SCIENCES CAMPUS

VOLDENG, A NELSON; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926630)*; 12 MONTHS $8,200

UNIVERSITY OF ARKANSAS, LITTLE ROCK

PURSER, J M; *ACQUISITION OF MICROCOMPUTERS FOR CHEMISTRY CURRICULUM DEVELOPMENT (SER-8013853)*; 30 MONTHS $7,500

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019082)*; 36 MONTHS $7,720

UNIVERSITY OF ARKANSAS, PINE BLUFF

WILLINGHAM, WILLIAM M; *STUDENT SCIENCE TRAINING (SPI-7925816*)*; 10 MONTHS $23,880

AIJAZ, SYED M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001246)*; 18 MONTHS $10,592

WILLINGHAM, WILLIAM M; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014587)*; 16 MONTHS $14,500

CALIFORNIA

ADVANCED LEARNING TECHNOLOGY

PIESTRUP, ANN; *EARLY LEARNING (GRADES 2 AND 3) OF GEOMETRY AND LOGIC, USING MICROCOMPUTERS (SED-8012510)*; 12 MONTHS $86,000

AEROSPACE CORPORATION

AUSTIN, WANDA; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008259)*; 26 MONTHS $20,000

BAKERSFIELD COLLEGE

ALLISON, ROBERT D; *CAUSE: INSTRUCTIONAL COMPUTING IN THE COMMUNITY COLLEGE (SER-8004926)*; 24 MONTHS $117,801

CALIFORNIA INSTITUTE OF TECHNOLOGY
BELLAN, PAUL M; *EQUIPMENT FOR A NEW APPLIED PHYSICS LAB COURSE (SER-8014442)*; 30 MONTHS $20,000

CALIFORNIA PUBLIC INTEREST RESEARCH GROUP
WALKER, CHRIS; *PLANNING A CONSUMER ASSESSMENT NETWORK FOR SCIENTIFIC AND TECHNICAL INFORMATION EXCHANGE (OSS-8016349)*; 18 MONTHS $65,305

CALIFORNIA STATE COLLEGE, BAKERSFIELD
SUTER, STEVEN E; *STUDENT SCIENCE TRAINING (SPI-7925153)*; 10 MONTHS $10,510
COHEN, DAVID C; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926853)*; 12 MONTHS $11,801
OST, DAVID H; *REAL PROBLEM SOLVING IN THE LIFE SCIENCES (SER-8000762)*; 30 MONTHS $9,845

CALIFORNIA STATE COLLEGE, SAN BERNARDINO
CHARKINS, RALPH J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000629)*; 18 MONTHS $19,957

CALIFORNIA STATE POLYTECHNIC UNIV, POMONA
KNILL, LAMAR M; *USES OF CALIFORNIUM-252 IN SCIENCE EDUCATION (SER-7917226)*; 12 MONTHS $4,400
VOLLMAR, ARNULF; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926977)*; 12 MONTHS $10,100
MILLER, CRANE S; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000396)*; 18 MONTHS $37,647

CALIFORNIA STATE UNIVERSITY, CHICO
GLANVILLE, BRADLEY B; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000217)*; 18 MONTHS $41,786

CALIFORNIA STATE UNIVERSITY, FULLERTON
PRZEKOP, LAWRENCE R; *SPECIAL FOREIGN CURRENCY AWARD (IN EGYPTIAN CURRENCY AND U.S. DOLLARS) FOR RESEARCH AND DEVELOPMENT IN SCIENCE EDUCATION (INT-7920013*)*; 24 MONTHS $10,632
SICA, MORRIS; *RESEARCH TO PROMOTE SCIENCE LEARNING AMONG BLIND STUDENTS IN COLLEGES AND UNIVERSITIES (SED-7920597)*; 9 MONTHS $30,682
NAGEL, GLENN M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926855)*; 12 MONTHS $19,870
FRIEL, JAMES O; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000239)*; 18 MONTHS $23,635
CARLSON, GAYLEN R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000374)*; 18 MONTHS $49,210
KOCH, ROBERT A; *INTRODUCTION OF LIQUID SCINTILLATION COUNTING TECHNIQUES INTO A BIOLOGY LABORATORY CURRICULUM FOR UNDERGRADUATES (SER-8013338)*; 30 MONTHS $11,513

CALIFORNIA STATE UNIVERSITY, LONG BEACH
RITZ, WILLIAM C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000638)*; 18 MONTHS $29,978
RITZ, WILLIAM C; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009081)*; 18 MONTHS $29,979

CALIFORNIA STATE UNIVERSITY, LOS ANGELES
BRAGIN, JOSEPH; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926856)*; 12 MONTHS $18,752

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE
CAMPBELL, BONITA J; *SCIENCE CAREER FACILITATION PROJECT (SPI-7704742 A02)*; $8,256
SPOTTS, CHARLES R; *STUDENT SCIENCE TRAINING (SPI-7925851)*; 10 MONTHS $11,700
FIELSTRA, HELEN; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000589)*; 18 MONTHS $46,797

CALIFORNIA STATE UNIVERSITY, SACRAMENTO
ETTERBEEK, WALLACE; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000209)*; 18 MONTHS $30,000

CENTER FOR THE STUDY OF COMMUNITY COLLEGES
COHEN, ARTHUR M; *SCIENCE EDUCATION FOR WOMEN, MINORITY, AND HANDICAPPED STUDENTS IN COMMUNITY COLLEGES (SED-7920222)*; 32 MONTHS $189,546

DOMINICAN COLLEGE OF SAN RAFAEL
LEPAGE, FRANCOISE; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000660)*; 18 MONTHS $30,351

EVERGREEN VALLEY COLLEGE
IBRAHIM, SAMI A; *CAUSE: INCREASING ENROLLMENT AND PERFORMANCE OF STUDENTS IN MATH, SCIENCE AND ENGINEERING (SER-8005211)*; 36 MONTHS $174,394

FIELDING INSTITUTE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019084)*; 48 MONTHS $7,720

GROSSMONT COLLEGE
BORNHORST, WILLIAM R; *CAUSE: IMPROVEMENT OF THE SCIENCE CURRICULUM USING MICROCOMPUTERS (SER-8005301)*; 36 MONTHS $225,993

HARVEY MUDD COLLEGE
TANNENBAUM, B SAMUEL; *STUDENT SCIENCE TRAINING (SPI-7925537)*; 10 MONTHS $23,200
RAE, JOHN B; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000098)*; 18 MONTHS $32,933

HIGHER EDUCATION RESEARCH INSTITUTE INC
SCHERREI, RITA A; *A LONGITUDINAL STUDY OF WOMEN AND MINORITIES IN SCIENCE AND ENGINEERING (SED-8017651)*; 15 MONTHS $49,542

HOLY NAMES COLLEGE
ASHTON, MADELEINE R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001130)*; 18 MONTHS $12,670
EHRET, ROSE E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001259)*; 18 MONTHS $24,755

HUMBOLDT STATE UNIVERSITY
DENGLER, LORINDA; *SCANNING ELECTRON MICROSCOPE (SER-8013179)*; 30 MONTHS $20,000

INDIVIDUAL AWARD
DOUGLAS, ROBERT J; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013090)*; 42 MONTHS $29,312
BELLOLI, ROBERT C; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013093)*; 42 MONTHS $20,536
MERRIAM, ESTHER V; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013097)*; 42 MONTHS $19,662
ORLAND, GEORGE H; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013103)*; 42 MONTHS $15,211
LEPOWSKY, WILLIAM L; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013106)*; 42 MONTHS $28,800
MCALARY, FLORENCE A; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013114)*; 42 MONTHS $28,862
POULTER, HOWARD C; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013263)*; 42 MONTHS $28,800
ROSENTHAL, LOIS C; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013277)*; 12 MONTHS $5,809
LONGINO, HELEN; *INTERDISCIPLINARY INCENTIVE AWARD (OSS-8018095)*; 40 MONTHS $11,300
BURTON, DUDLEY J; *INTERDISCIPLINARY INCENTIVE AWARD (OSS-8019335)*; 40 MONTHS $23,500
JAMETON, ANDREW L; *INTERDISCIPLINARY INCENTIVE AWARD (OSS-8019336)*; 40 MONTHS $11,420

LOS ANGELES PIERCE COLLEGE
BEYER, ANN H; *CAUSE: DEVELOPMENT OF LIFE SCIENCE LEARNING CENTER (SER-8004797)*; 24 MONTHS $246,539

LOS ANGELES VALLEY COLLEGE
SAMUELS, EDWARD; *INCREASED COMPUTER-ASSISTED INSTRUCTION IN THE BIOLOGICAL SCIENCES (SER-8014439)*; 30 MONTHS $19,820

LOYOLA MARYMOUNT UNIVERSITY
GRAY, ALLEN P; *CAUSE: COMPUTING IN A SOCIAL SCIENCE METHODOLOGY LABORATORY (SER-8004988)*; 36 MONTHS $236,453

MILLS COLLEGE
MACDONALD, JAN, AND KREINBERG, NANCY; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008559)*; 13 MONTHS $20,000
BOWYER, JANE; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009102)*; 24 MONTHS $24,331
HUMPHREYS, SHEILA; *SCIENCE INTERVENTION PROGRAMS FOR GIRLS: FOLLOW-UP STUDY AND EVALUATION KIT (SED-8016785*)*; 24 MONTHS $90,200

MOUNT ST MARY'S COLLEGE
SNOW, GEORGE E; *INTRODUCING BIOETHICAL CONCERNS INTO THE GENERAL BIOLOGY COURSE (SER-8001438)*; 30 MONTHS $24,648

OCCIDENTAL COLLEGE
KEELEY, JON E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926576)*; 12 MONTHS $16,466

PEOPLE'S COMPUTER COMPANY
ZAMORA, RAMON M; *COMPUTERTOWN, USA - BRINGING COMPUTER LITERACY TO THE ENTIRE COMMUNITY (SED-8015964)*; 36 MONTHS $224,100

SADDLEBACK COMMUNITY COLLEGE
CAMPBELL, DAVE; *DIALOG PHYSICS (SER-8001342)*; 30 MONTHS $16,771

SAN DIEGO STATE UNIVERSITY
KIRSCH, JEFFREY W; *'SYNTHESIS III' A PUBLIC TELEVISION SERIES ABOUT SCIENCE POLICY (OSS-7924505)*; 18 MONTHS $259,854
DEATON, EDMUND I; *STUDENT SCIENCE TRAINING (SPI-7925206)*; 10 MONTHS $27,500
KOOP, JANICE B; *DEVELOPMENTAL MATHEMATICS CENTER IMPROVEMENT PROJECT (SER-8000972)*; 30 MONTHS $25,000
RINEHART, ROBERT R; *USE OF AN X-RAY MACHINE IN UNDERGRADUATE RADIATION BIOLOGY COURSES (SER-8015213)*; 30 MONTHS $19,703

SAN FRANCISCO STATE UNIVERSITY
SULLIVAN, RAYMOND; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000237)*; 18 MONTHS $32,461
RESEK, DIANE; *MATHEMATICS NETWORK CURRICULUM PROJECT FOR MIDDLE SCHOOL TEACHERS AND STUDENTS (SED-8012465)*; 24 MONTHS $78,811

SAN JOSE STATE UNIVERSITY

PHILLIPS, VERIL L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001204)*; 18 MONTHS $30,524

KILKENNY, MARY E; *STUDENT-ORIGINATED STUDIES (SPI-8003973)*; 12 MONTHS $19,720

SANTA ANA COLLEGE

DOBOS, DAVID E; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8006032)*; 16 MONTHS $47,927

SONOMA STATE UNIVERSITY

LEKER, ROBERT W; *STUDENT-ORIGINATED STUDIES (SPI-8004018)*; 12 MONTHS $15,468

STANFORD UNIVERSITY-SCHOOL OF MEDICINE

DUTTON, DIANA B, AND BUNKER, JOHN P; *ETHICAL ISSUES IN BIOMEDICAL DECISION-MAKING: FOUR CASE STUDIES (OSS-7728502 A02)*; 12 MONTHS $84,056

STANFORD UNIVERSITY

COHEN, ELIZABETH G; *LEARNING SCIENCE IN BILINGUAL CLASSROOMS: INTERACTION AND SOCIAL STATUS (SED-8014079)*; 12 MONTHS $78,733

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019177*)*; 60 MONTHS $54,040

UNIVERSITY OF CALIFORNIA, BERKELEY

FRIEDMAN, ALAN J; *A SCIENCE COURSE FOR YOUTH IN INFORMAL SETTINGS: LEARNING TO EXPERIMENT (SED-7918976)*; 36 MONTHS $120,640

MILLER, JOHN D; *ELEMENTARY MATHEMATICS CONCEPTS WITH CALCULATORS: MICROCOMPUTER-BASED MODULES FOR TEACHERS, PARENTS AND THE PUBLIC (SED-7919000)*; 18 MONTHS $98,027

KARPLUS, ROBERT; *MODULES FOR THE DEVELOPMENT OF REASONING IN MATHEMATICS (GRADES 7-9) (SED-7926682)*; 19 MONTHS $238,600

LAETSCH, W M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000115)*; 18 MONTHS $36,544

HELMHOLZ, A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000193)*; 18 MONTHS $42,889

THIER, HERBERT D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000400)*; 18 MONTHS $43,900

LAETSCH, W M; *PHYSICALLY HANDICAPPED IN SCIENCE (SPI-8005444)*; 12 MONTHS $45,450

LAETSCH, W M; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009082)*; 18 MONTHS $29,635

LOWERY, LAWRENCE F; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009087)*; 12 MONTHS $29,986

KARPLUS, ROBERT; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION: EQUALS WORKSHOPS FOR EDUCATIONAL LEADERS-MATHEMATICS AND SCIENCE PROGRAM FOR WOMEN (SER-8012291)*; 18 MONTHS $49,996

THIER, HERBERT D; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION; (SCIENCE MATERIALS AND APPROACHES FOR THE PHYSICALLY DISABLED STUDENT) (SER-8012293)*; 16 MONTHS $48,851

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019108*)*; 60 MONTHS $54,040

UNIVERSITY OF CALIFORNIA, DAVIS

PERKES, VICTOR A; *STUDENT SCIENCE TRAINING (SPI-7925191)*; 10 MONTHS $23,320

PERKES, VICTOR A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000155)*; 18 MONTHS $23,475

PERKES, VICTOR A; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008179)*; 24 MONTHS $23,465

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019109*)*; 60 MONTHS $7,720

FISHER, KATHLEEN M; *IPA MOBILITY ASSIGNMENT (KATHLEEN MARY FISHER) (SED-8024605)*; 13 MONTHS $39,952

UNIVERSITY OF CALIFORNIA, IRVINE

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019110*)*; 60 MONTHS $7,720

UNIVERSITY OF CALIFORNIA, LOS ANGELES

PERMAUL, JANE; *ROLE MODELS FOR ADOLESCENT GIRLS IN SCIENCE & MATHEMATICS (SED-7919023 A01)*; $2,790

RUSSELL, ARLENE A; *CAUSE: INSTRUCTIONAL IMPROVEMENT IN LOWER DIV. CHEMISTRY IN CALIFORNIA (SER-8005401)*; 36 MONTHS $235,039

NONE, N N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019111*)*; 30 MONTHS $7,720

UNIVERSITY OF CALIFORNIA, RIVERSIDE

LUDDEN, PAUL W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926881)*; 12 MONTHS $19,970

WILD, ROBERT L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000153)*; 18 MONTHS $23,673

PEASE, ROBERT W; *INTEGRATING DIGITAL IMAGE PROCESSING INTO REMOTE SENSING AND CLIMATOLOGY COURSES (SER-8013428)*; 30 MONTHS $18,761

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

AUE, DONALD H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926919)*; 12 MONTHS $17,995

CURRY, BEN B; *STUDENT-ORIGINATED STUDIES (SPI-8003989)*; 12 MONTHS $14,606

CURRY, BEN B; *STUDENT-ORIGINATED STUDIES: OLD DAD AND KELSO MOUNTAINS RESOURCE SURVEY (SPI-8003989 A01)*; $1,450

MARCUS, MARVIN; *MICROCOMPUTER EQUIPMENT FOR UNDERGRADUATE APPLIED MATHEMATICS INSTRUCTION (SER-8013804)*; 30 MONTHS $19,319

MAYER, RICHARD E; *IMPROVING STUDENTS' COMPREHENSION OF SCIENCE PROSE (SED-8014950)*; 30 MONTHS $59,252

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

HOOPER, KRISTINA; *VISUAL GEOMETRY AND MATHEMATICS COGNITION FOR BEGINNING COLLEGE SCIENCE STUDENTS (SED-7919779)*; 24 MONTHS $235,174

CREWS, PHILLIP O; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926990)*; 12 MONTHS $19,860

STONE, ROBERT D; *STUDENT-ORIGINATED STUDIES (SPI-8003979)*; 12 MONTHS $19,300

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019115*)*; 60 MONTHS $15,440

UNIVERSITY OF SAN FRANCISCO

TULA, SANTIAGO; *STUDENT-ORIGINATED STUDIES (SPI-8003961)*; 12 MONTHS $19,249

UNIVERSITY OF SANTA CLARA

DE BOUVERE, K L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926814)*; 12 MONTHS $14,000

UNIVERSITY OF SOUTHERN CALIFORNIA

HOWATT, CLARKE T; *STUDENT SCIENCE TRAINING (SPI-7926352)*; 10 MONTHS $20,000

KING-STOOPS, JOYCE; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000406)*; 18 MONTHS $45,099

BOTTJER, DAVID J; *COLLEGE FACULTY CONFERENCE (SPI-8009495)*; 18 MONTHS $48,791

RHODES, EDWARD J; *A REMOTE COMPUTER GRAPHICS FACILITY FOR UNDERGRADUATE ASTRONOMY INSTRUCTION (SER-8013600)*; 30 MONTHS $14,354

HOWATT, CLARKE T; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8015604)*; 16 MONTHS $12,500

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019092)*; 48 MONTHS $15,440

COLORADO

ASPEN CENTER FOR PHYSICS

DRESDEN, MAX; *COLLEGE FACULTY CONFERENCE (SPI-8009494)*; 18 MONTHS $50,000

BIOLOGICAL SCIENCES CURRICULUM STUDY COMPANY

HICKMAN, FAITH M; *AN INSTRUCTIONAL MODULE IN HUMAN GENETICS FOR HIGH SCHOOL STUDENTS (SED-7918983)*; 24 MONTHS $212,911

ROBINSON, JAMES T; *LOGICAL COMPETENCIES AND ACTIVITY SELECTION PATTERNS IN EARLY ADOLESCENTS: A LONGITUDINAL STUDY (SED-7919312)*; 12 MONTHS $126,976

MC INERNEY, JOSEPH D; *ETHICAL ISSUES IN THE GENETIC COUNSELING PROCESS: A PROPOSAL TO INCREASE COUNSELOR EFFECTIVENESS (OSS-7924511)*; 18 MONTHS $144,252

HURD, PAUL D, AND ROBINSON, JAMES T; *THE STATUS OF MIDDLE SCHOOL JUNIOR HIGH SCHOOL SCIENCE (SED-8015816)*; 15 MONTHS $119,962

ROBINSON, JAMES T; *RESEARCH IN SCIENCE EDUCATION: NEW QUESTIONS, NEW DIRECTIONS (SED-8017531)*; 12 MONTHS $25,828

TOLMAN, RICHARD R; *AN EXPERT: NOVICE INFORMATION: PROCESSING STUDY OF PROBLEMSOLVING IN GENETICS (SED-8017671)*; 12 MONTHS $35,490

COLORADO SCHOOL OF MINES

BURNETT, JERROLD J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001226)*; 18 MONTHS $45,009

COLORADO STATE UNIVERSITY

BRUMLEY, WILSON E; *STUDENT SCIENCE TRAINING (SPI-7925906*)*; 10 MONTHS $28,740

VAUGHAN, JOHN D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-[illegible]9817)*; 12 MONTHS $15,999

BASHAM, CHARLES W; *CAUSE: A COMPUTER INFORMATION, ANALYSIS, AND SIMULATION (SER-8005199)*; 36 MONTHS $250,000

BROWN, DEAN R; *PHYSICALLY HANDICAPPED IN SCIENCE (SPI-8005442*)*; 15 MONTHS $44,998

GRIT, DALE H; *A SYSTEMS SOFTWARE MINICOMPUTER LABORATORY (SER-8013364)*; 30 MONTHS $20,000

CROSS, HENRY A; *IPA MOBILITY ASSIGNMENT (HENRY CROSS) (SER-8021654)*; 13 MONTHS $61,352

FORT LEWIS COLLEGE

LIKES, ROBERT N; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001242)*; 18 MONTHS $32,854

INDIVIDUAL AWARD

JENKINS, ROBERT B; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013100)*; 42 MONTHS $26,454

RITCHEY, JOHN M; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013116)*; 42 MONTHS $22,522
MARGOLIS, ERIC M; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016367)*; 30 MONTHS $21,500
JONES, SHIRLEY K; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8018084)*; 30 MONTHS $21,200

UNIVERSITY OF COLORADO AT BOULDER

SWADENER, MARC; *PERSONAL COMPUTERS AND CROSS-AGE INSTRUCTION (SED-7918974)*; 24 MONTHS $84,917
ASHBY, NEIL; *DEVELOPMENT OF PROBLEM-SOLVING SKILLS IN PHYSICS: ELECTROSTATICS (SED-7919012)*; 24 MONTHS $72,935
SENESH, LAWRENCE; *STUDENT SCIENCE TRAINING (SPI-7925307)*; 10 MONTHS $32,530
DOWLING, J E; *ECONOMETRICS LABORATORY (SER-8000840)*; 30 MONTHS $20,665
CRUMPACKER, DAVID W; *A COURSE IN APPLIED ECOLOGY AND ENVIRONMENTAL AFFAIRS (SER-8000862)*; 30 MONTHS $12,204
HAWKINS, DAVID; *INVESTIGATION OF CRITICAL BARRIERS TO THE UNDERSTANDING OF SCIENCE (SED-8000581)*; 18 MONTHS $180,622
ANDERSON, RONALD D; *ANALYSIS (META-ANALYSIS) OF MAJOR FACETS OF SCIENCE EDUCATION (SED-8012310)*; 24 MONTHS $191,935
SENESH, LAWRENCE; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014583)*; 16 MONTHS $15,000
BREED, MICHAEL D; *EQUIPMENT FOR UNDERGRADUATE LABORATORY TRAINING IN BEHAVIORAL BIOLOGY AND NEUROETHOLOGY (SER-8015135)*; 30 MONTHS $19,422

UNIVERSITY OF COLORADO AT COLORADO SPRINGS

BLADE, RICHARD A; *LECTURE-LABORATORY COURSE IN WIND ENERGY (SER-8001400)*; 30 MONTHS $22,054
JONES, ROBERT E; *UNDERGRADUATE SOLID STATE PHYSICS LABORATORY (SER-8014802)*; 30 MONTHS $8,128

UNIVERSITY OF COLORADO AT DENVER

HARTVIGSON, ZENAS R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000581)*; 18 MONTHS $21,199
HARTVIGSON, ZENAS R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001261)*; 18 MONTHS $30,246

UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8020210)*; 60 MONTHS $7,720

UNIVERSITY OF DENVER-DENVER RESEARCH INSTITUTE

LANTZ, ALMA E; *DETERMINING THE IMPORTANCE OF FACTORS INFLUENCING THE ELECTION OF MATHEMATICS ACTIVITIES (SED-7817101) A01*; 6 MONTHS $19,860

UNIVERSITY OF DENVER

HORNBACK, JOSEPH M; *MASS SPECTROMETRY IN THE UNDERGRADUATE LABORATORY (SER-8014911)*; 30 MONTHS $7,270

UNIVERSITY OF NORTHERN COLORADO

PULEO, LARRY E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000170)*; 18 MONTHS $36,300
PEEPLES, E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000190)*; 18 MONTHS $12,155

CONNECTICUT

AREA COOPERATIVE EDUCATION SERVICES

HAAKONSEN, HARRY O; *STUDENT SCIENCE TRAINING (SPI-7925161)*; 10 MONTHS $24,330
SCHAEFER, LARRY; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009103)*; 12 MONTHS $27,906

CENTER FOR THE ENVIRONMENT AND MAN INC

GREGOIRE, ROGER G; *PLANNING A TECHNICAL COMMUNICATION NETWORK FOR GREATER HARTFORD (OSS-8016140)*; 12 MONTHS $68,484

EASTERN CONNECTICUT STATE COLLEGE

FERBRACHE, DAVID; *INCREASING ACADEMIC COMPUTER CAPABILITIES (SER-8013809)*; 30 MONTHS $20,000

INDIVIDUAL AWARD

NIELSEN, SVEND W; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013267)*; 42 MONTHS $29,640
DUNN, JAN D; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016385)*; 30 MONTHS $10,925

UNIVERSITY OF CONNECTICUT

NOETHER, GOTTFRIED E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000114)*; 18 MONTHS $22,660

UNIVERSITY OF HARTFORD

JORGENSEN, BRUCE W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000656)*; 18 MONTHS $35,566
TROYER, STEPHANIE F; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008257)*; 18 MONTHS $19,979
STEVENS, MALCOLM P; *INSTRUMENTATION FOR A POLYMER CHEMISTRY LABORATORY (SER-8015104)*; 30 MONTHS $16,095

UNIVERSITY OF NEW HAVEN

KLEINFELD, IRA H; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001302)*; 18 MONTHS $37,156
WHEELER, GEORGE L; *COMPONENTS FOR A MODULAR INSTRUMENTAL AND PHYSICAL CHEMISTRY LAB (SER-8014518)*; 30 MONTHS $6,000

WESLEYAN UNIVERSITY

JONES, MARYANN M; *STUDENT SCIENCE TRAINING (SPI-7925163)*; 10 MONTHS $12,000
LEINWAND, STEVEN J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001098)*; 10 MONTHS $36,051

YALE UNIVERSITY

HORVATH, CSABA G; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926967)*; 12 MONTHS $19,948
VIVIAN, JAMES R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000409)*; 18 MONTHS $49,988
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019203*)*; 60 MONTHS $23,160

DELAWARE

INDIVIDUAL AWARD

DURBIN, PAUL T; *SUSTAINED DEVELOPMENT AWARD (OSS-8018087)*; 64 MONTHS $16,750

UNIVERSITY OF DELAWARE

BROOKS, MORRIS W; *STUDENT SCIENCE TRAINING (SPI-7925276)*; 10 MONTHS $12,750
COOPER, CHARLES B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926996)*; 12 MONTHS $7,397
SINGLETON, RIVERS; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000369)*; 18 MONTHS $14,187
HOFSTETTER, FRED T; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000757)*; 18 MONTHS $33,116
SHEPPARD, DAVID E; *COMPUTER-ASSISTED (PLATO) LESSONS FOR INTRODUCTORY GENETICS (SER-8000780)*; 30 MONTHS $23,233
SYLVES, RICHARD T; *USE OF THE PLATO SYSTEM FOR POLITICAL SCIENCE EDUCTION (SER-8000894)*; 30 MONTHS $24,010
ROE, PETER G; *USING PLATO TO TEACH THE ANTHROPOLOGICAL STUDY OF ART STYLE (SER-8000900)*; 30 MONTHS $23,569

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

RATCHFORD, J THOMAS; *MASS MEDIA SCIENCE FELLOWS PROGRAM (OSS-7724720 A02)*; 12 MONTHS $57,354
LIVERMORE, ARTHUR H; *NSF CHAUTAUQUA TYPE SHORT COURSES FOR COLLEGE TEACHERS (SPI-7920712 A01)*; $58,750
STERN, VIRGINIA; *PHYSICALLY HANDICAPPED IN SCIENCE (SPI-8005439)*; 15 MONTHS $48,109
LIVERMORE, ARTHUR H; *NSF CHAUTAUQUA SHORT COURSES FOR COLLEGE TEACHERS, AND NONACADEMIC SCIENTISTS (SPI-8020958)*; 12 MONTHS $167,755

AMERICAN CHEMICAL SOCIETY (ACS)

PASSER, MOSES; *COLLEGE FACULTY CONFERENCE (SPI-8009489)*; 18 MONTHS $49,716

AMERICAN COUNCIL ON EDUCATION

STAUFFER, THOMAS M; *EVALUATION OF FY80 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-7725364 A04)*; 12 MONTHS $119,252
STAUFFER, THOMAS M; *EVALUATION SERVICES FOR FY 1981 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-7725364 A05)*; 12 MONTHS $42,145

AMERICAN SOCIETY FOR ENGINEERING EDUCATION

BAUMANN, DWIGHT M; *A NATIONAL CONFERENCE FOR DEANS OF BUSINESS AND ENGINEERING SCHOOLS (ISP-8020870 A01*)*; 6 MONTHS $37,500

AMERICAN SOCIETY FOR MICROBIOLOGY

BISHOP, HELEN; *OUTLINES IN MICROBIOLOGY FOR COMMUNITY & JUNIOR COLLEGES (SED-7718459 A02)*; 12 MONTHS $82,900

AMERICAN UNIVERSITY

ADAMS, ELIZABETH S; *STUDENT SCIENCE TRAINING (SPI-7925478)*; 10 MONTHS $27,260
KAY, RICHARD B; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000410)*; 18 MONTHS $19,969
ROSCHER, NINA M; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8008554)*; 19 MONTHS $100,000
STOCKMAN, GEORGE C; *LABORATORY FOR COMPUTER INTERFACING (SER-8015905)*; 30 MONTHS $10,526
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019081)*; 60 MONTHS $7,720

ASSOCIATION OF AMERICAN GEOGRAPHERS

ESTES, JOHN E; *COLLEGE FACULTY CONFERENCE (SPI-8009502)*; 18 MONTHS $47,659

ASSOCIATION OF SCIENCE-TECHNOLOGY CENTERS

TEMPLETON, MICHAEL; *SUPPORTING ACTIVITIES FOR SCIENCE-TECHNOLOGY CENTERS (OSS-7706038 A04)*; 12 MONTHS $104,045
GRINELL, SHEILA; *A TRAVELING SCIENCE MUSEUM EXIBIT ON LIGHT AND ITS PROPERTIES (OSS-7924503)*; 42 MONTHS $107,789

CATHOLIC UNIVERSITY OF AMERICA

BLOCK, CIELLE; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001314)*; 18 MONTHS $49,482

SOBER, DANIEL I; *FUNDAMENTAL MEASUREMENTS IN THE INTRODUCTORY MECHANICS LABORATORY (SER-8015211)*; 30 MONTHS $9,817

CONFERENCE BOARD OF THE MATHEMATICAL SCIENCES

BOTTS, TRUMAN A; *SURVEY OF UNDERGRADUATE EDUCATION IN THE MATHEMATICAL SCIENCES, 1980-81 (SED-7919946)*; 24 MONTHS $52,800

COUNCIL FOR ADVMNT & SUPPORT OF EDUC (CASE)

CARTER, VIRGINIA L; *CONFERENCE ON COMMUNICATING UNIVERSITY RESEARCH TO THE PUBLIC (OSS-7924501)*; 40 MONTHS $22,905

CARTER, VIRGINIA L; *CONFERENCE ON COMMUNICATING UNIVERSITY RESEARCH TO THE PUBLIC (OSS-7924501 A01)*; $7,262

DEPARTMENT OF EDUCATION

BULKIN, BERNARD J; *A STRATEGY/ACTION PROGRAM FOR RE-ENTRY OF WOMEN IN SCIENCE (SED-8020923)*; 24 MONTHS $124,415

FEDERATION OF ORGANIZATIONS FOR PROF WOMEN

HOLMES, HELEN B; *ETHICAL ISSUES ON RESEARCH ON HUMAN REPRODUCTION (OSS-7824508 A01)*; $12,393

GALLAUDET COLLEGE

CUNNINGHAM, PAUL J; *PHYSICALLY HANDICAPPED IN SCIENCE (SPI-8005445)*; 13 MONTHS $42,290

GEORGE WASHINGTON UNIVERSITY

BROOKS, ALISON S; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000390)*; 18 MONTHS $45,023

GEORGETOWN UNIVERSITY

ROSIER, RONALD C; *STUDENT SCIENCE TRAINING (SPI-7925819)*; 10 MONTHS $22,250

ROSIER, RONALD C; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014827)*; 16 MONTHS $20,000

ROSIER, RONALD C; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014827 A01)*; 16 MONTHS $3,250

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-80191.30*)*; 60 MONTHS $7,720

GREATER WASHINGTON EDUCATIONAL TV ASSOCIATION

CARR, MARTIN; *SMITHSONIAN WORLD, A PUBLIC TV SERIES ABOUT RESEARCH (OSS-7924507)*; 20 MONTHS $20,000

HOWARD UNIVERSITY

GOOLSBY, CHARLES M; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010713)*; 42 MONTHS $176,090

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-80191.15)*; 36 MONTHS $7,720

INDIVIDUAL AWARD

MAYER, NEIL S; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016.16)*; 30 MONTHS $31,172

SMITH, BARBARA E; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016.179)*; 30 MONTHS $21,456

BROOME, TAFT H; *INTERDISCIPLINARY INCENTIVE AWARD (OSS-8018091)*; 40 MONTHS $18,000

LABOR INSTITUTE FOR HUMAN ENRICHMENT INC

GOLODNER, JACK; *DISCUSSIONS OF CHEMICAL HAZARDS FOR UNION MEMBERS (OSS-7824068 A01)*; 12 MONTHS $2,300

MATHEMATICAL ASSOCIATION OF AMERICA

JOBE, JOHN; *MATHEMATICS IN SOCIETY MULTIMEDIA MATERIALS FOR 8TH 10TH GRADE STUDENTS (SED-8008418)*; 16 MONTHS $118,400

THOMPSON, MAYNARD; *COLLEGE FACULTY CONFERENCE (SPI-8009499)*; 18 MONTHS $19,800

NATIONAL ACADEMY OF SCIENCES

KELLY, WILLIAM C; *A STUDY OF THE FEDERAL ROLE IN COLLEGE SCIENCE EDUCATION FOR NON-SPECIALISTS (SED-7912299)*; 15 MONTHS $141,500

HANSING, FRANK D; *EVALUATION SERVICES FOR THE FY 1980 NSF MINORITY GRADUATE FELLOWSHIP PROGRAM (SPI-7923822 A01)*; 2 MONTHS $14,000

HANSING, FRANK D; *NSF MINORITY GRADUATE FELLOWSHIP PROGRAM (SPI-8020910)*; 14 MONTHS $95,500

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

GOLDHABER, J K; *SUPPORT OF CERTAIN ASPECTS OF THE 1980 INTERNATIONAL CONGRESS ON MATHEMATICAL EDUCATION (SED-7920903*)*; 18 MONTHS $50,000

NATIONAL ENDOWMENT FOR THE HUMANITIES

DUFFEY, JOSEPH; *COURSES BY NEWSPAPER -- ENERGY AND THE WAY WE LIVE (OSS-7924117)*; 9 MONTHS $50,272

NATIONAL PUBLIC RADIO

COHEN, BARBARA; *SCIENCE INFORMATION ON PUBLIC RADIO (OSS-8006355)*; 12 MONTHS $200,397

SCIENTIFIC MANPOWER COMMISSION

VETTER, BETTY M; *PRODUCTION OF AN AUDIO-VISUAL PRESENTATION ON CAREER OPPORTUNITIES FOR WOMEN IN SCIENCE AND ENGINEERING (SPI-7913025 A01)*; $3,648

SMITHSONIAN INSTITUTION

ADEY, WALTER H; *A LIVING CORAL REEF AS A TOOL FOR PUBLIC EDUCATION IN ECOLOGY (OSS-7808909 A01)*; 12 MONTHS $146,794

TECHNICAL INFORMATION PROJECT INC

FRITSCH, ALBERT J; *WORKSHOPS ON ETHICAL PROBLEMS IN THE PRODUCTION, USE AND REGULATION OF TOXIC SUBSTANCES (OSS-8009006)*; 3 MONTHS $3,379

FLORIDA

BETHUNE-COOKMAN COLLEGE

JOHNSON, DORCAS; *STUDENT ORIGINATED STUDIES (SPI-8004396)*; 12 MONTHS $11,623

CLAYTON, DENNIS D; *IMPROVEMENT OF THE ACADEMIC COMPUTING SYSTEM (SER-8013985)*; 30 MONTHS $11,500

ECKERD COLLEGE

GUIDA, WAYNE C; *NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY IN THE CHEMISTRY LABORATORY PROGRAM AT ECKERD COLLEGE (SER-8013950)*; 30 MONTHS $13,350

ENVIRONMENTAL COALITION OF BROWARD COUNTY

BLACKWELDER, BRION; *WORKSHOPS ON WATER MANAGEMENT, CONSERVATION AND TREATMENT IN THE BISCAYNE AQUIFER (OSS-7927074)*; 12 MONTHS $28,504

FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY

WALKER, CHARLES A; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010731)*; 42 MONTHS $66,780

FLORIDA INSTITUTE OF TECHNOLOGY

FRONK, ROBERT H; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000187)*; 18 MONTHS $22,525

BABICH, MICHAEL W; *NUCLEAR MAGNETIC RESONANCE SPECTROMETRY IN THE UNDERGRADUATE CHEMISTRY LABORATORIES (SER-8011207)*; 30 MONTHS $11,425

FLORIDA STATE UNIVERSITY

BARNES, LEHMAN W; *STUDENT SCIENCE TRAINING (SPI-7925269)*; 10 MONTHS $21,370

MELLON, EDWARD K; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926832)*; 12 MONTHS $18,050

REDFIELD, DAVID D; *EFFECTS OF ELABORATION PROCEDURES ON LEARNING AND RETENTION OF SCIENTIFIC PRINCIPLES (SED-8011281)*; 15 MONTHS $82,064

INDIVIDUAL AWARD

GARCIA, OSCAR N; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8011102)*; 42 MONTHS $21,600

DUBBELDAY, PIETER S; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8011267)*; 42 MONTHS $13,333

JACKSONVILLE UNIVERSITY

WHITE, A Q; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000240)*; 18 MONTHS $30,066

ROBERTSON, JESSE S; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001290)*; 18 MONTHS $28,821

STETSON UNIVERSITY

WILLIAMS, GARETH; *THE DEVELOPMENT OF A COMPUTER LABORATORY (SER-8011197)*; 30 MONTHS $16,085

UNIVERSITY OF CENTRAL FLORIDA

BRENNAN, JOHN J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001104)*; 18 MONTHS $25,950

BRENNAN, JOHN J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001210)*; 18 MONTHS $16,492

UNIVERSITY OF FLORIDA

KANTOWSKI, MARY G; *STUDENT SCIENCE TRAINING (SPI-7925538)*; 10 MONTHS $15,820

ABBOTT, ELIZABETH F; *STUDENT SCIENCE TRAINING (SPI-7925517)*; 10 MONTHS $27,950

BOLDUC, ELROY J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000647)*; 18 MONTHS $38,170

GOULD, ROBERT W; *DEVELOPING A NEW COURSE IN FAILURE ANALYSIS OF MATERIALS (SER-8000841)*; 30 MONTHS $15,110

KANTOWSKI, MARY G; *INSTRUCTION FOR PROBLEM SOLVING USING THE MICROCOMPUTER IN HIGH SCHOOL MATHEMATICS (SED-8012466)*; 21 MONTHS $110,322

EMMEL, THOMAS C; *COMPUTER-VIDEO LABORATORY INFORMATION SYSTEM (SER-8013424)*; 30 MONTHS $20,000

GOULD, ROBERT W; *ACQUISITION OF TELEVISION EQUIPMENT TO AID IN TEACHING A NEW COURSE IN MATERIALS FAILURE ANALYSIS (SER-8013425)*; 30 MONTHS $13,411

KANTOWSKI, MARY G; *THE MICROCOMPUTER AND PROBLEM SOLVING PROCESSES IN MIDDLE SCHOOL MATHEMATICS (SED-8014581)*; 36 MONTHS $140,342

UNIVERSITY OF MIAMI

VANDEMARK, MICHAEL R; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926911)*; 12 MONTHS $19,642

UNIVERSITY OF SOUTH FLORIDA

GLOVER, KOFI R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000745)*; 18 MONTHS $34,346

TOOMEY, KATHLEEN E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001211)*; 18 MONTHS $19,727
GARCIA, OSCAR N; *CAUSE: COMPUTER INTERACTIVE COLOR GRAPHICS LEARNING CENTER (SER-8006723)*; 36 MONTHS $249,914
MCDONALD, NANCY H; *A DATABASE LABORATORY FACILITY (SER-8014003)*; 30 MONTHS $17,809

UNIVERSITY OF WEST FLORIDA

MILLER, JANET S; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000103)*; 18 MONTHS $13,793

GEORGIA

ALBANY STATE COLLEGE

GREEN, EDWIN A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926605)*; 12 MONTHS $11,994
DAVIS, JOSEPHINE D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001217)*; 18 MONTHS $19,203
ROBINSON, DAVID C; *COMPETENCY BASED MODULAR GENERAL BIOLOGY COURSES FOR PREPARED AND ILL-PREPARED STUDENTS (SER-8001398)*; 30 MONTHS $24,068

ASSN FOR MEDIA-BASED CONTINUING ED ENGRS INC

WAUGH, J DAVID; *A PROTOTYPE SYSTEM TO DELIVER CONTINUING EDUCATION TO ENGINEERS (SED-8014211)*; 36 MONTHS $316,629

ATLANTA UNIVERSITY

COLE JR, THOMAS W; *EVALUATION OF THE RESOURCE CENTER FOR SCIENCE AND ENGINEERING AT ATLANTA UNIVERSITY (SER-7911955 A01)*; 12 MONTHS $18,960
FINKELSTEIN, HAROLD; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000621)*; 14 MONTHS $42,807
WEBB, MELVIN R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001248)*; 18 MONTHS $19,847
HUDSON, BENJAMIN F; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010746)*; 42 MONTHS $178,080
WEBB, MELVIN R; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8015634)*; 16 MONTHS $20,000
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019063)*; 36 MONTHS $7,720

DEKALB COMMUNITY COLLEGE

RICE, BILLIE A; *CAUSE: MATHEMATICS ASSISTED LEARNING CENTER (SER-8006972)*; 36 MONTHS $243,660

DISCOVERY LEARNING INC

JOHNSON, JOE J; *STUDENT SCIENCE TRAINING (SPI-7925560)*; 10 MONTHS $17,371

EMORY UNIVERSITY

NEFF, MARY F; *STUDENT SCIENCE TRAINING (SPI-7925459)*; 10 MONTHS $9,460
HAHN, CAROLE L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000321)*; 18 MONTHS $19,223
HAHN, CAROLE L; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009089)*; 24 MONTHS $29,235
JUSTICE, JOSEPH B; *UNDERGRADUATE BIOANALYTICAL CHEMISTRY LABORATORY (SER-8012982)*; 30 MONTHS $9,956

GEORGIA INSTITUTE OF TECHNOLOGY

LUNDBERG, JOHN L; *STUDENT SCIENCE TRAINING (SPI-7925300)*; 10 MONTHS $33,330
BAREFIELD, E K; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926334)*; 12 MONTHS $19,479
KARLOVITZ, LES A; *CAUSE: DYNAMIC INTEGRATION OF INFORMATION TECHNOLOGY INTO MATHEMATICS INSTRUCTION (SER-8006496)*; 36 MONTHS $207,313
WATTS, VIRGINIA S; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8000184)*; 14 MONTHS $19,755
KARLOVITZ, LES A; *MICROCOMPUTER BASED STRATEGIES FOR MATHEMATICS IN JUNIOR HIGH AND HIGH SCHOOL (SED-8012649)*; 21 MONTHS $59,200
LUNDBERG, JOHN L; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014581)*; 16 MONTHS $20,000

GEORGIA SOUTHERN COLLEGE

CLARK, FRANK C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000431)*; 18 MONTHS $21,000
BISHOP, T PARKER; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000646)*; 18 MONTHS $27,528
STONE, DAVID R; *PROBLEM SOLVING FOR UNDERGRADUATES (SER-8000666)*; 30 MONTHS $14,745

GEORGIA SOUTHWESTERN COLLEGE

MATHEWS, WALTER K; *STUDENT SCIENCE TRAINING (SPI-7925113)*; 10 MONTHS $18,000

GEORGIA STATE UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019065)*; 60 MONTHS $7,720

INDIVIDUAL AWARD

WARD, LILLIE D; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013269)*; 42 MONTHS $26,532

MERCER UNIVERSITY

BURKE, DANIEL D; *IMPROVEMENT OF INTRODUCTORY SEQUENCE IN BIOLOGY (SER-8014004)*; 30 MONTHS $15,325

MORRIS BROWN COLLEGE

ROTHMAN, NORMAN C; *SCIENCE-RELATED METHODOLOGY FOR NON-SCIENCE STUDENTS (SER-8001409)*; 30 MONTHS $23,670

SAVANNAH STATE COLLEGE

CHANDRA, KAILASH; *INTRODUCTORY PHYSICS LABORATORY INSTRUCTION (SER-8000741)*; 30 MONTHS $23,023

UNIVERSITY OF GEORGIA

SHAW, J S; *STUDENT SCIENCE TRAINING (SPI-7925444)*; 10 MONTHS $25,490
CADWALLADER, D E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926820)*; 12 MONTHS $12,540
WILLIAMS, ELMER D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000576)*; 18 MONTHS $29,850
WILLIAMS, ELMER D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000577)*; 18 MONTHS $33,545
ZEITLER, W R; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005443)*; 16 MONTHS $39,749
STEFFE, LESLIE P; *ANALYSIS OF THE CHILD'S CONSTRUCTION OF WHOLE NUMBERS (SED-8016562)*; 24 MONTHS $173,420
ZEITLER, W R; *RFP80-113 SUPPORT CENTER FOR THE NSF CHAUTAUQUA-TYPE SHORT COURSE PROGRAM (SPI-8017381)*; 15 MONTHS $395,096

HAWAII

HAWAII LOA COLLEGE

CULLINEY, JOHN L; *CAUSE: DEVELOPMENT OF AN INTERDISCIPLINARY UNDERGRADUATE OCEAN STUDIES PROGRAM (SER-8005410)*; 24 MONTHS $114,722

INDIVIDUAL AWARD

RUSSO, ANTHONY R; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013291)*; 42 MONTHS $7,547

UNIVERSITY OF HAWAII SYSTEM OFFICE

HWANG, SUK R; *STUDENT SCIENCE TRAINING (SPI-7925839)*; 10 MONTHS $26,730

UNIVERSITY OF HAWAII-MANOA

WEAVER, PAUL F; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926974)*; 12 MONTHS $19,843
FELDMAN, ARNOLD; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000969)*; 18 MONTHS $15,453
KAWAMOTO, KURT E; *STUDENT ORIGINATED STUDIES (SPI-8004745)*; 12 MONTHS $18,793
KLEMM, E BARBARA; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009777)*; 12 MONTHS $26,857
CARR, ALBERT B; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009778)*; 18 MONTHS $26,718
PAULL, R E; *POST HARVEST AND PLANT PHYSIOLOGY LABORATORY INSTRUCTIONAL IMPROVEMENT (SER-8012251)*; 30 MONTHS $14,220
PETERSON, W; *MICROCOMPUTER SOFTWARE LABORATORY (SER-8015180)*; 30 MONTHS $19,569
KIMURA, BERT Y; *A SCIENCE INFORMATION NETWORK PLAN FOR LEEWARD-CENTRAL OAHU (OSS-8016325)*; 9 MONTHS $29,939

IDAHO

BOISE STATE UNIVERSITY

MECH, WILLIAM F; *STUDENT SCIENCE TRAINING (SPI-7925874)*; 10 MONTHS $21,200

COLLEGE OF IDAHO

HENRY, BOYD; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000114)*; 18 MONTHS $12,345
DAVIS, W YNE; *STUDENT-ORIGINATED STUDIES (SPI-8004094)*; 12 MONTHS $11,079

IDAHO STATE UNIVERSITY

LERCH, ROBERT D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001235)*; 18 MONTHS $12,799
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019098)*; 36 MONTHS $7,720

UNIVERSITY OF IDAHO

WILLIAMS, GEORGE A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8001934)*; 12 MONTHS $19,956
SAUTER, NANCY; *STUDENT ORIGINATED STUDIES (SPI-8004007)*; 12 MONTHS $19,125

ILLINOIS

AMERICAN BAR ASSOCIATION (ABA)-ABA FUND FOR PUBLIC EDUCATION

TRUBOW, GEORGE E; *INTERDISCIPLINARY ANALYSIS AND DIALOGUE PROGRAM ON PERSONAL PRIVACY AND INFORMATION TECHNOLOGY (OSS-7914514)*; 12 MONTHS $27,976

ARGONNE NATIONAL LABORATORY

RAUCKHORST, WILLIAM H; *PHYSICALLY HANDICAPPED IN SCIENCE (SPI-8004441)*; 17 MONTHS $43,890

BRADLEY UNIVERSITY

PERMUTH, STEVE, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000147): 18 MONTHS $22,763

STEWART, THOMAS L; *ELECTRICAL ENGINEERING LABORATORY IMPROVEMENT PROJECT* (SER 8014090): 30 MONTHS $11,000

CHICAGO STATE UNIVERSITY

CHOOS, RAMONA G, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8001218): 18 MONTHS $43,850

ETLINGER, LEONARD; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION: (IMPLICATIONS OF NEW TECHNOLOGY FOR THE EXCEPTIONAL CHILD)* (SER 8013150): 18 MONTHS $30,924

DEPAUL UNIVERSITY

LIETZ, GERARD P; *NEW LABORATORY FOR COMPUTER INSTRUMENTATION COURSE* (SER 8015083): 30 MONTHS $6,201

FIELD MUSEUM OF NATURAL HISTORY

SMITH, HARRIET M, *STUDENT SCIENCE TRAINING* (SPI 7935850): 20 MONTHS $12,110

GEORGE WILLIAMS COLLEGE

DIXIE, DORA D; *STUDENT ORIGINATED STUDIES* (SPI 8004009): 12 MONTHS $13,468

ILLINOIS CENTRAL COLLEGE

CAMPBELL, THOMAS C; *SPACE-CENTERED ACTIVITY KIT FOR JUNIOR HIGH SCIENCE INSTRUCTION* (SED 7919998): 24 MONTHS $25,700

ILLINOIS INSTITUTE OF TECHNOLOGY

WEIL, VIVIAN, *WORKSHOPS ON ETHICAL ISSUES IN ENGINEERING* (OSS 7907276 A01): 6 MONTHS $6,270

STUEBEN, EDWIN F, *STUDENT SCIENCE TRAINING* (SPI 7935359): 10 MONTHS $54,200

WOJCIK, ANTHONY S, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000443): 18 MONTHS $25,460

ZWICKER, EARL F, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8001638): 18 MONTHS $32,626

SHYAN, MELISSA R, *STUDENT ORIGINATED STUDIES* (SPI 8004009): 12 MONTHS $9,690

MERTENS, JOHN M, *FIRE PROPERTIES LABORATORY* (SER 8014357): 30 MONTHS $19,100

GRAHAM, LOIS; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS* (SPI 8014322): 16 MONTHS $20,000

ILLINOIS SCIENCE LECTURE ASSOCIATION

LESTINA, LETITIA; *PRE-PREPARATION LECTURES FOR INNER CITY, HIGH-ABILITY SECONDARY SCHOOL STUDENTS ATTENDING THE ISLA CHRISTMAS LECTURES ON RELATIVITY* (SED 8000449*): 2 MONTHS $1,100

ILLINOIS STATE UNIVERSITY

FITCH, THOMAS C, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000147): 18 MONTHS $29,861

FITCH, THOMAS C, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000147): 18 MONTHS $33,338

BAZIK, EDNA F, *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION* (SER 8009110): 12 MONTHS $20,934

ILLINOIS WESLEYAN UNIVERSITY

BRAUGHT, DAVID C, *CAUSE INSTRUCTIONAL APPLICATIONS OF MICROCOMPUTERS IN SCIENCE AND MATHEMATICS EDUCATION* (SER 8005114): 36 MONTHS $93,140

WILSON, RAYMOND G, *COMPUTER GRAPHICS TECHNOLOGY AS A VISUALIZATION TOOL FOR TEACHING MODERN OPTICAL THEORY IN HIGH SCHOOL AND COLLEGE PHYSICS* (SED 8021477): 24 MONTHS $39,600

INDIVIDUAL AWARD

HIPPENSTEELE, J R, *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM* (SPI 8011398): 42 MONTHS $20,699

COON, LEWIS H, *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM* (SPI 8013291): 42 MONTHS $20,900

SIEGLER, MARK, *INTERDISCIPLINARY INCENTIVE AWARD* (OSS 8015007): 60 MONTHS $14,750

JOHN A LOGAN COLLEGE

POPP, TERRY, *INTEGRATION OF COMPUTER GRAPHICS INTO SELECTED SCIENCE COURSES* (SER 8000750): 30 MONTHS $9,259

KNOX COLLEGE

SCHRAMM, PETER; *UNDERGRADUATE RESEARCH PARTICIPATION* (SPI 7926099): 12 MONTHS $7,711

LAKE FOREST COLLEGE

SHIVELY, RALPH L, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8001195): 18 MONTHS $19,349

LEWIS UNIVERSITY

REICH, MICHAEL J, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000510): 18 MONTHS $10,586

REICH, MICHAEL J, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000999): 18 MONTHS $9,139

LOYOLA UNIVERSITY OF CHICAGO

YOST, WILLIAM A, *UNDERGRADUATE LABORATORY FOR SENSATION, PERCEPTION AND PHYSIOLOGICAL PSYCHOLOGY* (SER 8013709): 30 MONTHS $14,725

NACKONEY, RAYMOND W, *DEMONSTRATION EQUIPMENT IN ELECTRON AND NUCLEAR RADIATION PHYSICS* (SER 8013936): 30 MONTHS $4,200

MILLIKIN UNIVERSITY

SMIGELSKI, LEOPOLD B, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000870): 18 MONTHS $21,366

NORTHEASTERN ILLINOIS UNIVERSITY

MC ARDLE, EUGENE W, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000544): 18 MONTHS $12,986

NORTHERN ILLINOIS UNIVERSITY

WEAVER, ALLEN D, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000594): 18 MONTHS $20,752

NORTHWESTERN UNIVERSITY

LESH, RICHARD; *APPLIED PROBLEM SOLVING IN MIDDLE-SCHOOL MATHEMATICS* (SED 8017771): 30 MONTHS $199,501

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS* (SPI 8019101*): 60 MONTHS $7,720

PARKLAND COLLEGE

KELLEY, SUSAN G, *FIELD CENTER FOR NSF CHAUTAUQUA TYPE SHORT COURSES* (SPI 8005851): 18 MONTHS $39,197

PRIME TIME SCHOOL TELEVISION (PTST)

SINGER, WILLIAM S, *A TELEVISION PROGRAM DESCRIBING RESEARCH ON EARLY PARENT-CHILD RELATIONSHIPS* (OSS 7914509): 12 MONTHS $100,000

SANGAMON STATE UNIVERSITY

STEVENS, W WILLIAM, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000590): 18 MONTHS $34,626

CASELLA, ALEXANDER J; *CITIZENS' PLAN FOR ENERGY SELF-RELIANCE FOR SPRINGFIELD, ILLINOIS* (OSS 8014151): 18 MONTHS $74,166

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

CARMONY, LOWELL A, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000091): 18 MONTHS $9,454

RUBBA, PETER A; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION* (SER 8008079): 12 MONTHS $7,174

PHILLIPS, JOHN B, *IMPROVED INSTRUCTION IN INSTRUMENTAL ANALYTICAL CHEMISTRY LABORATORY* (SER 8011710): 30 MONTHS $9,900

LEFEBVRE, EUGENE A, *UNDERGRADUATE BIOLOGY COURSES IMPROVEMENT EQUIPMENT* (SER 8014419): 30 MONTHS $20,000

SOUTHERN ILLINOIS UNIVERSITY - EDWARDSVILLE

DREW, HENRY D, *IMPROVED ANALYTICAL INSTRUMENTATION IN CHEMISTRY AND ENVIRONMENTAL ENGINEERING* (SER 8011477): 30 MONTHS $12,618

UNIVERSITY OF CHICAGO

PUTNAM, ALFRED L, *STUDENT SCIENCE TRAINING* (SPI 7935359): 10 MONTHS $41,980

FRITZSCHE, HELLMUT, *UNDERGRADUATE RESEARCH PARTICIPATION* (SPI 7935860): 12 MONTHS $15,566

NONE, NONE N, *SUPPORT FOR NSF GRADUATE FELLOWS* (SPI 8019119*): 60 MONTHS $20,160

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

SETTON, HENRY A, *STUDENT SCIENCE TRAINING* (SPI 7935477): 20 MONTHS $16,740

BOULANGER, F, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000104): 18 MONTHS $15,059

WALBERG, HERBERT J, *INCREASING THE PRODUCTIVITY OF SCIENCE LEARNING IN EARLY ADOLESCENTS* (SED 8007904): 31 MONTHS $204,914

UNIVERSITY OF ILLINOIS AT URBANA

SIVIER, KENNETH R, *A COMPUTER AIDED COURSE IN AIRCRAFT DESIGN* (SER 8000440): 30 MONTHS $24,779

STAKE, ROBERT E, *A RETROSPECTIVE WORKSHOP ON METHODOLOGICAL ISSUES IN SCIENCE EDUCATION CASE-STUDY RESEARCH* (SED 8006197): 6 MONTHS $13,600

MEDIH, MARTIN L, *A SYNTHESIS OF FINDINGS ON SEX DIFFERENCES IN SCIENCE EDUCATION RESEARCH* (SED 8007457): 24 MONTHS $184,149

DUGDALE, SHARON, *PROTOTYPE MICROCOMPUTER COURSEWARE FOR TEACHING HIGH SCHOOL ALGEBRA* (SED 8013449): 18 MONTHS $111,300

NONE, NONE N, *SUPPORT FOR NSF GRADUATE FELLOWS* (SPI 8019127*): 60 MONTHS $7,720

WESTERN ILLINOIS UNIVERSITY

BUNDSCHUH, JAMES E, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000071): 18 MONTHS $15,917

INDIANA

BALL STATE UNIVERSITY

MERTENS, THOMAS R, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000993): 18 MONTHS $27,429

WATSON, JAMES, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI 8000097): 18 MONTHS $20,715

COSBY, RONALD M; *LABORATORY COURSEWARE DEVELOPMENT FOR APPLIED SOLAR ENERGY COURSES (SER-8000801)*; 30 MONTHS $20,501
ERRINGTON, PAUL R; *MICROPROCESSOR DEVELOPMENT FOR MICROCOMPUTER INSTRUCTION (SER-8013988)*; 30 MONTHS $13,100
MEISER, JOHN H; *X-RAY DIFFRACTION EQUIPMENT IN MULTIDISCIPLINARY STUDIES (SER-8013568)*; 30 MONTHS $13,517

BUTLER UNIVERSITY

WOODRUFF, BURRTON; *EDUCATING UNDERGRADUATES ON HOW TO APPLY SCIENTIFIC METHODS TO BEHAVIOR (SER-8015424)*; 30 MONTHS $20,000

EARLHAM COLLEGE

HAY, HELEN; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926586)*; 12 MONTHS $8,000

INDIANA UNIVERSITY, BLOOMINGTON

CORY, WALTER A; *STUDENT SCIENCE TRAINING (SPI-7925482)*; 10 MONTHS $38,580
OCHOA, ANNA; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000740)*; 18 MONTHS $26,887
RIPPEN, PAUL R; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008911)*; 18 MONTHS $26,468
PROSSER, FRANKLIN; *IMPROVEMENT OF LABORATORY IN COMPUTER STRUCTURES (SER-8013219)*; 30 MONTHS $19,800

INDIANA UNIVERSITY, KOKOMO

DOLPH, GARY E; *CAUSE: COMPUTER SIMULATED RESEARCH PROJECTS IN THE SCIENCES (SER-8004789)*; 36 MONTHS $85,926

INDIANA UNIVERSITY, NORTHWEST

REINGOLD, HAIM; *STUDENT SCIENCE TRAINING (SPI-7925215)*; 20 MONTHS $33,240
REINGOLD, HAIM; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000649)*; 18 MONTHS $21,245
REINGOLD, HAIM; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8016592)*; 16 MONTHS $20,000

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

WILSON, KATHRYN; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926898)*; 12 MONTHS $19,996
GERSTING, JUDITH L; *A COMPUTER-IN-SOCIETY COURSE FOR IUPUI (SER-8000854)*; 30 MONTHS $7,794
HERRMANN, SUSAN; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008182)*; 19 MONTHS $20,000

INDIVIDUAL AWARD

WILLIAMS, LYNN R; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013110)*; 42 MONTHS $27,082

PURDUE UNIVERSITY-CALUMET REGIONAL CAMPUS

VOCKELL, EDWARD L; *COMPUTER BIOLOGY SIMULATIONS FOR HIGH SCHOOL STUDENTS TO STIMULATE SCIENTIFIC PROBLEM SOLVING (SED-8018948)*; 24 MONTHS $74,955

PURDUE UNIVERSITY

LEBOLD, WILLIAM K; *IMPROVING ACCESS AND GUIDANCE IN ENGINEERING: RESEARCH INTO CONTRIBUTING FACTORS (SED-7919613)*; 24 MONTHS $141,426
KENAGA, CLARE B; *STUDENT SCIENCE TRAINING (SPI-7925184)*; 10 MONTHS $29,060
KROCKOVER, GERALD H; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000144)*; 18 MONTHS $33,447
SQUIRES, ROBERT G; *EFFICIENT INSTRUCTION OF PROBLEM-ORIENTED MATERIAL IN LARGE ENGINEERING COURSES (SER-8000877)*; 30 MONTHS $24,950
MOODIE, COLIN L; *VIDEO TAPE EXPERIMENTS FOR MANUFACTURING PROCESS SCIENCE LABORATORY (SER-8000983)*; 30 MONTHS $20,223
EMSHOUSEN, FRED W; *SOLAR ENERGY INSTRUCTION IN MECHANICAL TECHNOLOGY LABORATORIES (SER-8015056)*; 30 MONTHS $5,920
SADOWSKI, RANDALL P, AND MEIER, WILBUR L; *ENGINEERING EDUCATION MATERIALS FOR COMPUTER AIDED MANUFACTURING (SED-8020447)*; 24 MONTHS $263,722

ST JOSEPH'S COLLEGE

EGAN, WELDON; *STUDENT-ORIGINATED STUDIES (SPI-8004388)*; 12 MONTHS $13,593

UNIVERSITY OF NOTRE DAME

SCHWARTZ, MAURICE E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926559)*; 12 MONTHS $18,684
AJMERA, PRATUL K; *IMPROVING UNDERGRADUATE SEMICONDUCTOR PHYSICS AND DEVICE COURSES THROUGH THE USE OF MICRO COMPUTER SYSTEMS (SER-8000800)*; 30 MONTHS $24,448
GREENE, RICHARD W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001265)*; 18 MONTHS $21,918
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019091)*; 60 MONTHS $7,720

VALPARAISO UNIVERSITY

KOETKE, DONALD D; *IMPROVED LABORATORY INSTRUCTION IN VACUUM TECHNIQUES (SER-8014774)*; 30 MONTHS $4,200

IOWA

AREA VI COMMUNITY COLLEGE-MARSHALLTOWN COMMUNITY COLLEGE

LEBSACK, DONALD; *COMPUTER AIDED LABORATORY/LEARNING CENTER FOR PHYSICS INSTRUCTION (SER-8013559)*; 30 MONTHS $10,100

CLARKE COLLEGE

KELLER, MARY K; *CAUSE: COMPREHENSIVE APPLICATION OF COMPUTER TECHNOLOGY TO SCIENCE EDUCATION (SER-8005216)*; 36 MONTHS $206,676

DRAKE UNIVERSITY

ROBINSON, DAVID; *STUDENT SCIENCE TRAINING (SPI-7925190)*; 10 MONTHS $18,580

GRINNELL COLLEGE

WUBBELS, GENE G; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926580)*; 12 MONTHS $9,500
FRICKSON, LUTHER E; *REVISION OF A PHYSICAL CHEMISTRY COURSE AND LABORATORY (SER-8000866)*; 30 MONTHS $14,861
BROZOSKI, THOMAS J; *COMPUTER CONTROL FOR UNDERGRADUATE PSYCHOLOGY LABORATORIES (SER-8015575)*; 30 MONTHS $13,385

INDIVIDUAL AWARD

BARNAAL, DENNIS; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013290)*; 42 MONTHS $16,071
SHEEHAN, MICHAEL F; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016377)*; 30 MONTHS $23,334

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

KRAUS, GEORGE A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926554)*; 12 MONTHS $19,988
GLASS, LYNN W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000516)*; 18 MONTHS $27,078
KLUGE, JOHN P; *CONFERENCE INTRUCTION IN PATHOLOGY LABORATORY COURSES (SER-8013546)*; 30 MONTHS $13,400
WRIGHT, CHARLES T; *HANDS-ON COMPUTING LABORATORY (SER-8014482)*; 30 MONTHS $19,990

LORAS COLLEGE

BEALS, JOHN M; *STUDENT-ORIGINATED STUDIES (SPI-8004396)*; 12 MONTHS $15,709

LUTHER COLLEGE

ECKBLAD, JAMES W; *STUDENT SCIENCE TRAINING (SPI-7925850)*; 10 MONTHS $12,100
BARNAAL, DENNIS; *PHYSICS LABORATORY EQUIPMENT (SER-8014400)*; 30 MONTHS $13,270

UNIVERSITY OF IOWA

GUILLORY, J K; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926629)*; 12 MONTHS $13,625
YAGER, ROBERT E; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005457)*; 16 MONTHS $47,081
NOVICK, MELVIN R; *COMPUTER-ASSISTED DATA ANALYSIS (CADA) FOR TEACHING BAYESIAN STATISTICS AND APPLICATIONS FOR RESEARCH IN SCIENCE EDUCATION (SED-8006357*)*; 32 MONTHS $384,234
YAGER, ROBERT E; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009070)*; 12 MONTHS $28,570
ARZBAECHER, ROBERT; *HYBRID MICROELECTRONICS LABORATORY (SER-8014791)*; 30 MONTHS $19,575
SOLURSH, MICHAEL; *MODERNIZATION OF LABORATORY COURSES IN DEVELOPMENTAL, CELLULAR AND MOLECULAR BIOLOGY (SER-8014816)*; 30 MONTHS $15,575

UNIVERSITY OF NORTHERN IOWA

COONEY, TIMOTHY M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000132)*; 18 MONTHS $33,170
COONEY, TIMOTHY M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000171)*; 18 MONTHS $20,370

WARTBURG COLLEGE

RIBICH, FRED D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001129)*; 18 MONTHS $25,469

KANSAS

BENEDICTINE COLLEGE

BOWEN, DANIEL E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000415)*; 18 MONTHS $15,506
BOWEN, DANIEL E; *A BIOLOGY-PSYCHOLOGY MULTIDISCIPLINE PLAN FOR PSYSIOLOGY LABORATORIES (SER-8013968)*; 30 MONTHS $6,148
BROM, JOSEPH M; *INTEGRATION OF EXPERIMENTAL NMR SPECTROSCOPY INTO THE UNDERGRADUATE CHEMISTRY CURRICULUM (SER-8015020)*; 30 MONTHS $13,470

EMPORIA STATE UNIVERSITY

BACKHUS, DEWAYNE A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000108)*; 12 MONTHS $19,095
RANSOM, JOHN; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000141)*; 18 MONTHS $30,991

FORT HAYES STATE UNIVERSITY

MILLHOLLEN, GARY L; *X-RAY POWDER DIFFRACTION IN MINERALOGY (SER-8013193)*; 30 MONTHS $16,009

INDIVIDUAL AWARD
CHIANG, YUAN C; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013291)*; 42 MONTHS $16,583

JOHNSON COUNTY COMMUNITY COLLEGE
FOURIER, MARY J; *A REVISED HUMAN ANATOMY COURSE (SER-8000970)*; 30 MONTHS $22,427

KANSAS NEWMAN COLLEGE
MARK, JOANN; *DEVELOPMENT OF TWO ONE-SEMESTER COURSES IN COMPUTER SCIENCE (SER-8001442)*; 30 MONTHS $7,930

KANSAS STATE UNIVERSITY
SHAW, TERRY; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000753)*; 18 MONTHS $30,199
STRECKER, GEORGE E; *MATHEMATICAL MODELING FOR AGRICULTURAL ECONOMICS (SER-8000765)*; 30 MONTHS $24,187
LUCAS, MICHAEL S; *ELECTRONIC INSTRUMENTATION FOR ENGINEERS AND SCIENTISTS (SER-8001462)*; 30 MONTHS $15,448
MELOAN, CLIFTON E; *CAUSE: A SIX-SEMESTER INTEGRATED UNDERGRADUATE CHEMISTRY LABORATORY SEQUENCE UTILIZING MARKET PLACE SAMPLES (SER-8004983)*; 36 MONTHS $249,498
LUCAS, MICHAEL S; *ENGINEERING LABORATORY INSTRUMENTATION AND CONTROL COMPUTERS (SER-8013802)*; 30 MONTHS $12,600
UHLARIK, JOHN J; *THE UTILIZATION OF MICROCOMPUTERS TO PROVIDE LABORATORY EXPERIENCES FOR UNDERGRADUATE PSYCHOLOGY STUDENTS (SER-8015175)*; 30 MONTHS $19,975
MELOAN, CLIFTON E; *EQUIPMENT REQUEST FOR CHEMICAL SEPARATIONS (SER-8045180)*; 30 MONTHS $11,282
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019087)*; 45 MONTHS $7,720

MCPHERSON COLLEGE
ZERGER, RICHARD P; *CAUSE: DEVELOPMENT OF AN INTERDISCIPLINARY RESEARCH PROGRAM FOR SCIENCE MAJORS (SER-8005409)*; 36 MONTHS $111,083

ST MARY COLLEGE
KUSHAN, BARBARA; *CAUSE: STRENGTHENING MATHEMATICAL COMPETENCY WITH THE COMPUTER (SER-8004949)*; 36 MONTHS $249,941

UNIVERSITY OF KANSAS MAIN CAMPUS
MESLER, RUSSELL B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926560)*; 12 MONTHS $15,832
SCHOWEN, KATHARINE B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926601)*; 12 MONTHS $16,327

WASHBURN UNIVERSITY OF TOPEKA
YAFFE, FRED L; *DEMONSTRATIONS IN EXPERIMENTAL PSYCHOLOGY FOR JUNIOR HIGH SCHOOLS (SED-7918967)*; 24 MONTHS $118,648

WICHITA STATE UNIVERSITY
WHERRITT, ROBERT C; *STUDENT SCIENCE TRAINING (SPI-7925596)*; 10 MONTHS $31,950
BRADY, STEPHEN W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000211)*; 18 MONTHS $27,687
CORNELIUS, RICHARD; *CAUSE: INTERACTIVE MICRO-COMPUTING IN THE CLASSROOM (SER-8004784)*; 36 MONTHS $244,500
FOSTER, DONALD L; *ESTABLISHMENT OF AN ELECTRONICS LABORATORY (SER-8013845)*; 30 MONTHS $8,250

KENTUCKY

APPALACHIA-SCIENCE IN THE PUBLIC INTEREST
FRITSCH, ALBERT J; *APPALACHIAN TECHNICAL ASSOCIATION (OSS-7923395)*; 12 MONTHS $58,300

BEREA COLLEGE
GENTRY, CLAUDE E; *STUDENT SCIENCE TRAINING (SPI-7925858)*; 10 MONTHS $14,210

EASTERN KENTUCKY UNIVERSITY
KUHN, KARL F; *RECORDED PLANETARIUM PROGRAMS FOR ASTRONOMY CLASSES (SER-8000847)*; 30 MONTHS $15,567
BENDALL, VICTOR I; *INTRODUCING MICROCOMPUTERS INTO THE CHEMISTRY LABORATORY (SER-8013405)*; 30 MONTHS $6,950

INDIVIDUAL AWARD
NOLAND, ANNE V; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013264)*; 42 MONTHS $11,806

KENTUCKY STATE UNIVERSITY
GARBATY, EDWARD; *CAUSE: PERSONALIZED COMPUTER ASSISTED AUDIO-VISUAL SYSTEM (SER-8004787)*; 36 MONTHS $133,997

KENTUCKY WESLEYAN COLLEGE
FLACHSKAM, ROBERT; *STUDENT SCIENCE TRAINING (SPI-7925248)*; 10 MONTHS $10,000

MURRAY STATE UNIVERSITY
HAGOOD, JOHN W; *A BASIC SKILLS AND COMMUNICATIONS COURSE IN MATHEMATICS (SER-8000787)*; 30 MONTHS $24,358
SPARKS, PHILLIP D; *CAUSE: EMPLOYING MICRO-COMPUTERS IN A LEARNING CENTER FOR INTERDISCIPLINARY STUDIES (SER-8005298)*; 36 MONTHS $250,000
KUPCHELLA, CHARLES E; *IMPROVEMENT OF INSTRUCTION IN PHYSIOLOGY (SER-8013527)*; 30 MONTHS $18,181

NORTHERN KENTUCKY UNIVERSITY
WARNER, JERRY W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001312)*; 18 MONTHS $33,246

UNIVERSITY OF KENTUCKY
DILLEHAY, RONALD C; *CAUSE: IMPROVEMENT OF INSTRUCTION IN PSYCHOLOGY VIA MICROCOMPUTERS, A-V PACKAGES, AND LAB DEMONSTRATIONS (SER-8005325)*; 36 MONTHS $249,842
WELLS, JAMES H; *MICROCOMPUTER LABORATORY FOR UNDERGRADUATE MATHEMATICS INSTRUCTION (SER-8015089)*; 30 MONTHS $17,663
BAXTER, ANTHONY Q; *TEACHING COMPUTER SCIENCE THROUGH 'HANDS-ON' COMPUTING (SER-8015116)*; 30 MONTHS $20,000

UNIVERSITY OF LOUISVILLE
COLE, JOSEPH D; *STUDENT SCIENCE TRAINING (SPI-7925539)*; 10 MONTHS $17,990
OCHS, V D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001103)*; 18 MONTHS $34,755
BORDOLOI, KIRON C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001268)*; 18 MONTHS $19,072

WESTERN KENTUCKY UNIVERSITY
MCCURRY, J R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000741)*; 18 MONTHS $13,042
MOORE, WILLIAM R; *AN INTERACTIVE COMPUTER SYSTEM FOR INCREASED LABORATORY LEARNING (SER-8000827)*; 30 MONTHS $24,993
BUEKER, ROBERT C; *CAUSE: DEVELOPING COMPUTER LITERACY & USING COMPUTER MODULES IN FIVE SCIENCE DEPARTMENTS (SER-8004947)*; 36 MONTHS $225,680
OTTO, ROBERT; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008181)*; 24 MONTHS $27,864
BUSH, ARTHUR J; *IMPROVEMENT OF UNDERGRADUATE SURVEYING CLASSES BY USE OF ELECTRONIC MEASURING (SER-8014771)*; 30 MONTHS $6,200

LOUISIANA

GRAMBLING STATE UNIVERSITY
DOUGLAS, SAMUEL H; *STUDENT SCIENCE TRAINING (SPI-7925837)*; 10 MONTHS $39,620
DOUGLAS, SAMUEL H; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8015601)*; 16 MONTHS $20,000

LOUISIANA STATE UNIVERSITY, BATON ROUGE
IDDINGS, FRANK A; *STUDENT SCIENCE TRAINING (SPI-7925847)*; 10 MONTHS $22,910
GOPU, VIJAYA K A; *DEVELOPMENT OF A COURSE IN WOOD MECHANICS AND TIMBER STRUCTURES (SER-8001464)*; 30 MONTHS $10,336
VERMA, LALIT R; *AGRICULTURAL ELECTRIFICATION AND CROP PROCESSING TEACHING LABORATORIES (SER-8013941)*; 30 MONTHS $3,988
IDDINGS, FRANK A; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014828)*; 16 MONTHS $20,000
RICHARDS, GILL; *A POWER SYSTEMS LABORATORY (SER-8015851)*; 30 MONTHS $20,000

LOYOLA UNIVERSITY IN NEW ORLEANS
PEPITONE, ALICE A; *STUDENT-ORIGINATED STUDIES (SPI-8004381)*; 12 MONTHS $14,693

MCNEESE STATE UNIVERSITY
ROGERS, STEARNS W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000112)*; 18 MONTHS $8,068

NORTHWESTERN STATE UNIVERSITY OF LOUISIANA
GRIFFITH, THOMAS W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7927174)*; 12 MONTHS $17,581

SOUTHERN UNIVERSITY
DUNCAN, CECIL; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7927000)*; 12 MONTHS $12,090
GIBSON, EVERETT D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001247)*; 18 MONTHS $29,607
CHRISTIAN, FRED A; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010740)*; 42 MONTHS $22,260

ST MARY'S DOMINICAN COLLEGE
JETER, JAN; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000633)*; 18 MONTHS $33,366

UNIVERSITY OF NEW ORLEANS
GRIFFITH, O F; *ENERGY ORIENTED INSTRUCTIONAL LABORATORY FOR UNDERGRADUATE EDUCATION STUDENTS (SER-8001450)*; 30 MONTHS $3,922
HANNOURA, A'ALIM A; *WATER RESOURCES COURSES IMPROVEMENT (SER-8015409)*; 30 MONTHS $19,870

XAVIER UNIVERSITY OF LOUISIANA
MARSHALL, PATRICIA; *NEEDS/STRATEGY EVALUATION OF MINORITY INSTITUTIONS IN EDUCATIONAL COMPUTING (SPI-7821515 A01)*; $2,483
BROWN, WINSTON D; *STUDENT SCIENCE TRAINING (SPI-7925507)*; 10 MONTHS $12,890
RUBY, DOUGLAS E; *ALTERNATE PATHWAYS OF LEARNING IN NON-SCIENCE MAJORS BIOLOGY (SER-8001390)*; 30 MONTHS $14,570

BROWN, WINSTON D; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014896)*; 16 MONTHS $20,000

VINCENT, HAROLD A; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8015151)*; 24 MONTHS $49,930

MAINE

BATES COLLEGE

RUFF, GEORGE A; *MODERN PHYSICS IN THE INTRODUCTORY LABORATORY (SER-8015245)*; 30 MONTHS $11,872

BOWDOIN COLLEGE

SCHAFFNER, PAUL E; *CAI MODULES IN BEHAVIORAL STATISTICS, SOCIAL PSYCHOLOGY, AND PSYCHOBIOLOGY (SER-8001451)*; 30 MONTHS $18,783

ROSE, GUENTER H; *THE IMPROVEMENT OF LABORATORY FACILITIES IN PSYCHOBIOLOGY (SER-8013994)*; 30 MONTHS $12,278

INDIVIDUAL AWARD

SHICK, J MALCOLM; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013119)*; 42 MONTHS $13,264

JACKSON LABORATORY

OUTZEN, HENRY C; *STUDENT SCIENCE TRAINING (SPI-7925548)*; 10 MONTHS $8,400

MAINE MARITIME ACADEMY

BARLOW, JOHN; *MICROSCOPES FOR BIOLOGY LABORATORY IMPROVEMENT (SER-8015479)*; 30 MONTHS $3,997

UNIVERSITY OF MAINE, BANGOR

BUTZOW, JOHN; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000119)*; 18 MONTHS $24,501

UNIVERSITY OF MAINE, ORONO

BROWNSTEIN, KENNETH R; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926858)*; 12 MONTHS $10,764

BEARD, EARL M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000214)*; 18 MONTHS $20,021

GENCO, JOSEPH M; *CAUSE: UNIFYING AND INTEGRATING PULP AND PAPER SCIENCE PROGRAMS (SER-8004895)*; 36 MONTHS $174,599

BUTZOW, JOHN; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008177)*; 18 MONTHS $28,943

CARUSO, FRANK L; *MODERNIZATION OF TEACHING LABORATORIES IN PLANT PHYSIOLOGY AND PLANT PATHOLOGY (SER-8014372)*; 30 MONTHS $16,675

MARYLAND

BUREAU OF THE CENSUS

LEVINE, DANIEL B; *SUPPORT FOR INTERAGENCY PANELS: EARLY CHILDHOOD RESEARCH AND DEVELOPMENT, AND DEVELOPMENT IN ADOLESCENCE (BNS-8005063*)*; 12 MONTHS $10,000

CAPITAL SYSTEMS GROUP INC

KREAGER, WILLIAM A; *SUPPORT OPERATIONS TO THE RANN DOCUMENT CENTER (C1035) (SED-7522472 A11*)*; $60,500

CLANSKEY, KENNETH B; *SUPPORT SERVICES FOR RESEARCH INFORMATION PROCESSING AND DISSEMINATION PROGRAMS (EAS-8020049*)*; 12 MONTHS $181,288

INDIVIDUAL AWARD

SAGOFF, MARK H; *INTERDISCIPLINARY INCENTIVE AWARD (OSS-8018096)*; 40 MONTHS $22,000

JOHNS HOPKINS UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019141*)*; 60 MONTHS $7,720

JOHNS HOPKINS UNIVERSITY-SCHOOL OF HYGIENE & PUBLIC HEALTH

FEE, ELIZABETH; *SOCIAL AND SCIENTIFIC VALUES IN THE DEVELOPMENT OF PUBLIC HEALTH RESEARCH AND PRACTICE (OSS-8006374)*; 24 MONTHS $50,470

JOHNS HOPKINS UNIVERSITY-SCHOOL OF MEDICINE

BAKALAR, KENNETH M; *STUDENT SCIENCE TRAINING (SPI-7925965)*; 10 MONTHS $6,990

MORGAN STATE UNIVERSITY

RITTER, FREDRIC A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000902)*; 18 MONTHS $15,831

NATIONAL AQUARIUM IN BALTIMORE

PITTENGER, DAVID M; *WORKSHOPS ON HAZARDOUS MATERIALS IN THE BALTIMORE HARBOR AND THE CHESAPEAKE BAY (OSS-8016341)*; 12 MONTHS $52,497

TOWSON STATE UNIVERSITY

UKENS, LEON L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000081)*; 18 MONTHS $20,455

CREIGHTON, PHILLIP D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000082)*; 18 MONTHS $16,000

UNIVERSITY OF MARYLAND SYSTEM OFFICE

RIDKY, ROBERT W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000366)*; 18 MONTHS $27,751

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

HORELICK, BRINDELL; *STUDENT SCIENCE TRAINING (SPI-7925149)*; 20 MONTHS $28,320

UNIVERSITY OF MARYLAND, COLLEGE PARK

GREER, SANDRA C; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926820)*; 12 MONTHS $18,795

LAYMAN, JOHN W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001126)*; 18 MONTHS $24,985

ZLOTNICK, STACEY; *STUDENT-ORIGINATED STUDIES (SPI-8003970)*; 12 MONTHS $9,720

ZIPOY, DAVID M; *INSTRUMENTATION FOR AN ASTRONOMICAL FABRY-PEROT INTERFEROMETER (SER-8014628)*; 30 MONTHS $3,510

HEIKKINEN, HENRY; *SUPPORT FOR SPECIFIC ASPECTS OF THE SIXTH INTERNATIONAL CONFERENCE ON CHEMICAL EDUCATION (1981) (SED-8020666)*; 18 MONTHS $49,000

MASSACHUSETTS

ACTION FOR BOSTON COMMUNITY DEVELOPMENT INC

WATERS, ARNETT L; *PHYSICALLY HANDICAPPED IN SCIENCE (SPI-8006025)*; 10 MONTHS $45,000

AMERICAN ACADEMY OF ARTS AND SCIENCES (AAAS)

GRAUBARD, STEPHEN R; *AN INQUIRY INTO THE NATURE AND GOALS OF SCIENTIFIC LITERACY (SED-8005975)*; 24 MONTHS $260,521

AMHERST COLLEGE

DOOLEY, DAVID M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926547)*; 12 MONTHS $9,093

BOSTON UNIVERSITY

ABEGG, GERALD; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000371)*; 18 MONTHS $48,013

WHITE, KATHLEEN M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8002078)*; 18 MONTHS $41,547

PADULO, LOUIS, AND PARKER, SONIA; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8008263)*; 37 MONTHS $100,000

BRIDGEWATER STATE COLLEGE

WEYGAND, GEORGE A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001266)*; 18 MONTHS $35,830

CLARK UNIVERSITY

KASPERSON, ROGER; *EQUITY ISSUES IN THE EXPOSURE OF WORKERS AND PUBLICS TO TECHNOLOGICAL HAZARDS (OSS-7924516)*; 24 MONTHS $119,462

MEISS, DENNIS E; *IMPROVEMENT OF UNDERGRADUATE PHYSIOLOGY AND NEUROPHYSIOLOGY LABORATORY INSTRUCTION (SER-8013188)*; 30 MONTHS $17,082

BURNS, BARBARA M; *DEVELOPMENT OF LABORATORY AND RESEARCH COURSES IN SENSATION AND PERCEPTION (SER-8013430)*; 30 MONTHS $6,208

COLLEGE OF OUR LADY OF THE ELMS

WRIGHT, MARY L; *CAUSE: IMPROVEMENT OF BIOLOGY CURRICULA AND RESOURCES FOR SCIENCE AND NONSCIENCE STUDENTS (SER-8004940)*; 24 MONTHS $59,987

COLLEGE OF THE HOLY CROSS

HILL, GEORGE; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926983)*; 12 MONTHS $11,725

RIPP, THOMAS M; *STUDENT-ORIGINATED STUDIES (SPI-8003988)*; 12 MONTHS $11,597

CURRY COLLEGE

TOUGER, JEROLD; *SCIENCE CORE PROJECT FOR NON SCIENCE-ORIENTED STUDENTS (SER-8000778)*; 30 MONTHS $24,942

EASTERN REGIONAL COUNCIL FOR EDUCATIONAL TV

GALEY, MINARUTH; *TECHNOLOGY AND THE INDIVIDUAL - A SCHOOL-TV SERIES FOR ADOLESCENTS (SED-8014104)*; 12 MONTHS $192,700

EDUCATION DEVELOPMENT CENTER

MURPHY, JERRY D; *ADMINISTRATIVE ACTIVITIES RELATED TO NSF-SUPPORTED CURRICULUM MATERIALS (SED-7820121 A01)*; 4 MONTHS $27,144

MURPHY, JERRY D; *ADMINISTRATIVE ACTIVITIES RELATED TO NSF-SUPPORTED CURRICULUM MATERIALS (SED-7820121 A02)*; 18 MONTHS $130,000

FINNEY, ROSS L, AND GARFUNKEL, SOLOMON; *MODULES AND MONOGRAPHS IN UNDERGRADUATE MATHEMATICS AND ITS APPLICATIONS PROJECT (UMAP) (SED-8007731)*; 24 MONTHS $440,404

SCHWARTZ, JUDAH L; *APPLICATION OF DIMENSIONAL ANALYSIS TO MIDDLE SCHOOL MATHEMATICS USING MICROCOMPUTER AND PRINT MATERIALS (SED-8012611)*; 19 MONTHS $156,101

HAMPSHIRE COLLEGE

KELLY, DAVID C; *STUDENT SCIENCE TRAINING (SPI-7926553)*; 10 MONTHS $36,550

WESTING, ARTHUR H; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005670)*; 16 MONTHS $50,909

HARVARD UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019133*)*; 60 MONTHS $23,160

INDIVIDUAL AWARD

GRUBER, PETER J; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013087)*; 42 MONTHS $5,948

GRUBER, SUE E; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013028)*; 42 MONTHS $5,697

BRUCE, KIM B; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013091)*; 42 MONTHS $22,100

PEURA, ROBERT A; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013099)*; 42 MONTHS $28,800

KRUPAT, EDWARD; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013113)*; 42 MONTHS $25,766

BELL, JERRY A; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013120)*; 42 MONTHS $24,175

ALSCHULER, WILLIAM R; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016358)*; 30 MONTHS $10,542

CONNOR, MICHAEL S; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016362)*; 30 MONTHS $22,012

DREIER, PETER; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016364)*; 30 MONTHS $20,620

DREIER, PETER; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016364 A01)*; 30 MONTHS $5,760

WINNER, LANGDON; *SUSTAINED DEVELOPMENT AWARD (OSS-8018089)*; 64 MONTHS $18,250

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PAPERT, SEYMOUR; *LOGO (A COMPUTER LANGUAGE) METHODS IN SCIENCE EDUCATION USING LOW COST HOME COMPUTERS (SED-7919033)*; 24 MONTHS $200,600

HOLLISTER, ROBERT M; *BOSTON NEIGHBORHOOD NETWORK FOR COMMUNITY SCIENCE AND TECHNOLOGY (OSS-7924287)*; 12 MONTHS $118,505

PAPERT, SEYMOUR; *INTEREST WORLDS: PRECOLLEGE MATHEMATICS IN A COMPUTER CULTURE (SED-8012648*)*; 17 MONTHS $161,434

SCHWARTZ, JUDAH L, AND NESHER, PEARLA; *THE DEVELOPMENT OF QUANTIFICATION CONCEPTS: A SYNTHESIS (SED-8018390)*; 12 MONTHS $69,586

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019146*)*; 60 MONTHS $84,920

MOUNT HOLYOKE COLLEGE

CAMPBELL, MARY K; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926552)*; 12 MONTHS $10,330

PRYOR, MARILYN Z; *THE REVISION OF INTRODUCTORY BIOLOGY LABORATORIES AT MOUNT HOLYOKE COLLEGE (SER-8000838)*; 30 MONTHS $18,729

NEW ENGLAND RIVERS CENTER

ARNOLD, THOMAS B; *WATER RESOURCE CONFERENCE ON MINIMUM STREAMFLOW ISSUES FOR MASSACHUSETTS, APRIL 1981, BOSTON, MASSACHUSETTS (OSS-8016342)*; 11 MONTHS $47,403

NORTHEASTERN UNIVERSITY

HERZOG, JOHN D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000607)*; 18 MONTHS $35,172

PANCHERI-SRIVAS, G, AND ONAN, KAY D; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8008260)*; 30 MONTHS $99,721

SALEM STATE COLLEGE

SULLIVAN, FRANK L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000420)*; 18 MONTHS $35,356

SIMMONS COLLEGE

BOWERS, PETER G; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926902)*; 12 MONTHS $8,000

SIMON'S ROCK EARLY COLLEGE

HANDELMAN, EILEEN T; *STUDENT SCIENCE TRAINING (SPI-7925158)*; 10 MONTHS $13,580

SMITH COLLEGE

MERRITT, ROBERT B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926859)*; 12 MONTHS $20,000

HUTCHINSON, JOAN P; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926984)*; 12 MONTHS $8,000

OLIVO, RICHARD F; *MICROCOMPUTERS FOR DATA ACQUISITION AND CONTROL OF EXPERIMENTS (SER-8013929)*; 30 MONTHS $5,649

BRADY, JOHN B; *REFURBISHMENT OF X-RAY DEFFRACTION EQUIPMENT FOR USE IN GEOLOGY AND CHEMISTRY INSTRUCTION (SER-8013957)*; 30 MONTHS $20,000

SOUTHEASTERN MASSACHUSETTS UNIVERSITY

SEARS, JAMES R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001125)*; 18 MONTHS $32,836

KAPUT, JAMES J; *A STUDY COMPARING FORMAL ALGEBRAIC REPRESENTATIONS WITH 'NATURAL' MENTAL REPRESENTATIONS (SED-8020920)*; 24 MONTHS $114,085

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ZAGARINS, JURIS; *MODULAR INTEGRATED MATERIALS SCIENCE COURSE (SER-8001377)*; 30 MONTHS $15,040

SUFFOLK COUNTY COOPERATIVE EXTENSION SERVICE

VOGT, JAY W; *FORUMS FOR RELIABLE AND AFFORDABLE ENERGY FOR GREATER BOSTON (OSS-8016390)*; 12 MONTHS $61,510

TUFTS UNIVERSITY

KRIMSKY, SHELDON; *A STUDY OF THE VALUE ISSUES IN THE CONTROVERSY OVER RECOMBINANT DNA RESEARCH (OSS-7816469 A02)*; 12 MONTHS $5,800

CHEW, FRANCES S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926613)*; 12 MONTHS $17,312

LERRICK, ANDREW J; *STUDENT-ORIGINATED STUDIES (SPI-8004407)*; 12 MONTHS $13,367

UNIVERSITY OF LOWELL

RENCRICCA, NICHOLAS J; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926575)*; 12 MONTHS $13,930

UNIVERSITY OF MASSACHUSETTS, AMHERST

FINN, JOHN T; *INTEGRATION OF COMPUTER MODULES AND SIMULATIONS INTO A WILDLIFE AND FISHERIES CURRICULUM (SER-8000811)*; 30 MONTHS $24,960

KONICEK, RICHARD D; *REASONING DEVELOPMENT: IN-SERVICE TRAINING FOR MIDDLE SCHOOL SCIENCE TEACHERS (SED-8010776)*; 16 MONTHS $55,562

GRAHAM, ROBERT M; *COMPUTER LABORATORY IMPROVEMENT FOR PROBLEM-SOLVING (REAL-TIME) ACTIVITIES (SER-8013829)*; 30 MONTHS $18,083

BURGGREN, WARREN W; *VERTEBRATE AND COMPARATIVE PHYSIOLOGY LABORATORIES (SER-8014614)*; 30 MONTHS $17,003

LOCKHHEAD, JACK; *PROGRAM OF APPLIED RESEARCH ON SCIENTIFIC REASONING PROCESSES (SED-8016567)*; 36 MONTHS $382,240

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019147*)*; 48 MONTHS $15,440

UNIVERSITY OF MASSACHUSETTS, BOSTON

MAHON, HAROLD P; *COMPUTER GRAPHICS AND MEASUREMENTS FOR PHYSICS LABORATORIES (SER-8013976)*; 30 MONTHS $20,000

WELLESLEY COLLEGE

ALLEN, MARY M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926912)*; 12 MONTHS $12,000

WESTERN NEW ENGLAND COLLEGE

COOMBS, WALTER P; *IMPROVEMENT OF INSTRUCTION IN BIOLOGY LABORATORIES THROUGH USE OF A MICROPROJECTOR (SER-8015249)*; 30 MONTHS $3,775

WGBH EDUCATIONAL FOUNDATION

RHODES, MICK; *PARTIAL SUPPORT FOR THE WEEKLY PUBLIC TELEVISION SERIES NOVA (OSS-7724406 A02)*; $121,000

WHEATON COLLEGE

JONES, PHILIP A; *AN INTEGRATED COURSE IN PLANT AND ANIMAL DEVELOPMENT (SER-8001425)*; 30 MONTHS $13,502

WHEELOCK COLLEGE

WYNER, NANCY; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001382)*; 18 MONTHS $40,797

WILLIAMS COLLEGE

VANDUYNE, CARL I; *A COMPUTER-BASED ECONOMETRIC MODEL OF THE U.S. ECONOMY FOR INSTRUCTIONAL USE (SER-8001452)*; 30 MONTHS $22,039

WORCESTER POLYTECHNIC INSTITUTE

SCALA, ALFRED A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI 7926550)*; 12 MONTHS $18,244

MEISNER, JAY S; *STUDENT-ORIGINATED STUDIES (SPI-8004400)*; 12 MONTHS $17,101

KINICKI, ROBERT E; *UNDERGRADUATE MICROPROCESSOR LABORATORY (SER-8013533)*; 30 MONTHS $7,635

MICHIGAN

ALBION COLLEGE

WILLIAMS, JOHN A; *COMPUTER GRAPHICS TERMINALS IN UNDERGRADUATE PHYSICS INSTRUCTION (SER-8015039)*; 30 MONTHS $3,400

CENTRAL MICHIGAN UNIVERSITY

DOUGLASS, CLAUDIA B, AND GILLINGHAM, JAMES C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001255)*; 18 MONTHS $29,184

EASTERN MICHIGAN UNIVERSITY

NICHOLSON, ELVA M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926945)*; 12 MONTHS $13,998

MOORE, JEAN R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000659)*; 18 MONTHS $31,417

CARTER, GILES F; *CAUSE: IMPROVING EDUCATION FOR TECHNICAL CAREERS BASED ON CHEMISTRY (SER-8005399)*; 36 MONTHS $196,913

GRAND VALLEY STATE COLLEGES

KOCH, WALTON B; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000119)*; 18 MONTHS $7,206

STEIN, HOWARD J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000553)*; 18 MONTHS $9,969

HIGH SCOPE EDUCATIONAL RESEARCH FOUNDATION

ZINN, KARL L; *SUPPORT CENTERS FOR MICROCOMPUTER APPLICATIONS IN SCIENCE EDUCATION (SED-7990124)*; 24 MONTHS $199,900

HOPE COLLEGE

BOYER, RODNEY F; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926854)*; 12 MONTHS $11,830

JEKEL, EUGENE C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000199)*; 18 MONTHS $35,726

CAMPBELL, HENRY C; *STUDENT-ORIGINATED STUDIES (SPI-8004411)*; 12 MONTHS $15,334

SEYMOUR, MICHAEL D; *COURSE IMPROVEMENTS IN SPECTROSCOPY, ANALYTICAL CHEMISTRY AND INSTRUMENTATION (SER-8015243)*; 30 MONTHS $7,931

INDIVIDUAL AWARD

HANNERT, TIMOTHY J; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013276)*; 42 MONTHS $12,331

VANDERMEER, JOHN H; *INTERDISCIPLINARY INCENTIVE AWARD (OSS-8018098)*; 40 MONTHS $12,000

KALAMAZOO COLLEGE

COOK, RICHARD J; *STUDENT SCIENCE TRAINING (SPI-7925261)*; 10 MONTHS $14,440

MERCY COLLEGE OF DETROIT

MCNARY, JOHN E; *CAUSE: COMPUTER ASSISTED INSTRUCTION IN MATHEMATICS AND SCIENCE (SER-8004964)*; 36 MONTHS $249,988

MICHIGAN STATE UNIVERSITY

ROSENBERG, RONALD C; *INTEGRATION OF INTERACTIVE GRAPHICS INTO ENGINEERING AND SCIENCE INSTRUCTION (SER-7907264 A01)*; 35 MONTHS $24,969

PEEBLES, CHARLES R; *STUDENT SCIENCE TRAINING (SPI-7925151)*; 10 MONTHS $14,970

LAPPAN, GLENDA, AND WINTER, MARY; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000340)*; 18 MONTHS $16,469

FITZGERALD, WILLIAM; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000644)*; 18 MONTHS $20,886

SACKS, MICHAEL S; *STUDENT-ORIGINATED STUDIES (SPI-8004402)*; 12 MONTHS $11,667

SMITH, RICHARD M; *CARTOGRAPHY-REMOTE SENSING LABORATORY IMPROVEMENT (SER-8013874)*; 30 MONTHS $20,000

WEINSHANK, DONALD J; *MICROCOMPUTER ASSISTED INSTRUCTION IN GENERAL EDUCATION SCIENCE (SER-8013895)*; 30 MONTHS $18,237

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019150*)*; 60 MONTHS $15,440

SMITH, EDWARD L; *PLANNING AND TEACHING MIDDLE-SCHOOL SCIENCE (SED-8020022)*; 11 MONTHS $61,324

SIGNELL, PETER; *PROBLEM-ORIENTED COLLEGE PHYSICS INSTRUCTION (SED-8020272)*; 24 MONTHS $482,100

MICHIGAN TECHNOLOGICAL UNIVERSITY

SPAIN, JAMES D; *ADAPTABLE MICROCOMPUTER GRAPHICS FOR UNDERGRADUATE LIFE SCIENCE INSTRUCTION (SED-7919051)*; 24 MONTHS $125,484

AGIN, MICHAEL L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000148)*; 18 MONTHS $21,933

CHIMINO, DAVID F; *AN AUDIO-TUTORIAL LABORATORY FOR AN INTRODUCTORY COURSE IN ELECTRICITY AND MAGNETISM (SER-8000774)*; 30 MONTHS $24,985

SPAIN, JAMES D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001122)*; 10 MONTHS $22,960

ARBABI, FREYDOON; *EQUIPMENT FOR THE STRUCTURAL BEHAVIOR LABORATORY (SER-8013389)*; 30 MONTHS $11,972

SPAIN, JAMES D; *MICROCOMPUTERS FOR LIFE SCIENCE INSTRUCTION (SER-8013406)*; 30 MONTHS $10,947

OTTENSTEIN, KARL J; *IMPROVEMENT OF COMPUTER GRAPHICS INSTRUCTION (SER-8013870)*; 30 MONTHS $13,927

NORTHERN MICHIGAN UNIVERSITY

BARRY, ROGER D; *REVISION OF GENERAL CHEMISTRY CARRELS (SER-8001012)*; 30 MONTHS $23,670

OAKLAND UNIVERSITY

MOURANT, WANDA J; *STUDENT SCIENCE TRAINING (SPI-7925480)*; 10 MONTHS $10,250

UNIVERSITY OF MICHIGAN-DEARBORN CAMPUS

POTTS, JOHN E; *DATA ACQUISITION SYSTEM FOR ADVANCED SCIENCE LABORATORIES (SER-8013930)*; 30 MONTHS $10,005

UNIVERSITY OF MICHIGAN

KULIK, JAMES A; *EVALUATION OF NSF'S LOCI PROGRAM (SER-7909542 A02)*; $7,187

STENECK, NICHOLAS H; *VALUES ISSUES IN RESEARCH ON THE BIOLOGICAL EFFECTS OF MICROWAVE RADIATION: A CASE STUDY (PART II) (OSS-7921284)*; 18 MONTHS $40,291

BURCKHALTER, J H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926914)*; 12 MONTHS $17,988

LANGOLF, GARY D; *COMPUTING EQUIPMENT FOR UNDERGRADUATE COURSES IN HUMAN FACTORS ENGINEERING (SER-8013798)*; 30 MONTHS $19,850

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019151*)*; 60 MONTHS $61,760

WAYNE STATE UNIVERSITY

RABAN, MORTON; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926579)*; 12 MONTHS $17,221

MAYEDA, KAZUTOSHI; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000735)*; 18 MONTHS $23,374

KLINE, KENNETH A; *DESIGN IMPROVEMENT USING COMPUTER BASELINES (SER-8000786)*; 30 MONTHS $24,770

KENEALY, PATRICK F; *INTERACTIVE GRAPHICS IN INTRODUCTORY PHYSICS FOR SCIENTISTS AND ENGINEERS (SER-8000861)*; 30 MONTHS $23,698

SINGH, TRILOCHAN; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014584)*; 16 MONTHS $20,000

SALA, LINDA SUE; *INTRODUCING COMPUTER TECHNOLOGY TO INSTRUCTION IN PSYCHOLOGY (SER-8015376)*; 30 MONTHS $17,187

WESTERN MICHIGAN UNIVERSITY

KAUFMAN, ROBERT W; *THE SCIENCE FOR CITIZENS CENTER OF SOUTHWESTERN MICHIGAN (OSS-7925390)*; 12 MONTHS $50,000

HIRSCH, CHRISTIAN R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000342)*; 18 MONTHS $25,233

MEYER, RUTH ANN; *PROBABILITY & STATISTICS WITH COMPUTER AND CALCULATOR APPLICATIONS FOR TEACHERS OF GRADES 4 - 9 (SER-8000885)*; 30 MONTHS $23,209

DIETRICH, ALLENE; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008565)*; 22 MONTHS $19,935

LARSEN, PHILLIP T; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009117)*; 24 MONTHS $29,307

HODLER, THOMAS W; *UNDERGRADUATE SCIENCE EDUCATION IN AUTOMATED CARTOGRAPHY AND GEOGRAPHIC ANALYSIS (SER-8015377)*; 30 MONTHS $20,000

MINNESOTA

BEMIDJI STATE UNIVERSITY

SMITH, GERALD J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001233)*; 18 MONTHS $32,817

CARLETON COLLEGE

SHOGER, ROSS L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926955)*; 12 MONTHS $12,000

BUCHWALD, CARYL E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000225)*; 18 MONTHS $20,765

GROW, ROY F; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001271)*; 18 MONTHS $26,857

SCHOLZ, JOHN K; *STUDENT-ORIGINATED STUDIES (SPI-8004385)*; 12 MONTHS $8,796

COLLEGE OF ST CATHERINE

BARNARD, MARQUITA; *UPDATING THE COURSE FOR NON-SCIENCE MAJORS IN INTRODUCTION TO NATURAL SCIENCE (SER-8000795)*; 30 MONTHS $22,250

COLLEGE OF ST TERESA

SKALA, HELEN; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000240)*; 18 MONTHS $6,415

HORNER, OSCAR F; *CAUSE: COLLEGIATE SCIENCE EDUCATION PROGRAM REVIEW (SER-8004966)*; 36 MONTHS $234,446

CONCORDIA COLLEGE AT MOORHEAD

HEUER, CHARLES V; *STUDENT SCIENCE TRAINING (SPI-7925240)*; 10 MONTHS $20,180

HAMLINE UNIVERSITY

OLSEN, RODNEY L; *DEVELOPMENT OF LABORATORY EXPERIMENTS TO INTRODUCE COMPUTER INTERFACING IN CHEMISTRY (SER-8001360)*; 30 MONTHS $8,175

INDIVIDUAL AWARD

ADAMS, JOHN S; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013092)*; 42 MONTHS $26,553

CORZATT, CLIFTON E; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013105)*; 42 MONTHS $4,620

MACALESTER COLLEGE

ROBERTS, A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926882)*; 12 MONTHS $11,675

LEPP, HENRY; *COMPUTER ASSISTED INSTRUCTION IN INTRODUCTORY GEOLOGY COURSES (SER-8000897)*; 30 MONTHS $25,000

MINNESOTA EDUCATIONAL COMPUTING CONSORTIUM

ANDERSON, RONALD E; *INSTRUCTIONAL MATERIALS FOR COMPUTER LITERACY (SED-7918987*)*; 30 MONTHS $286,175

SOUTHWEST STATE UNIVERSITY

TOBEY, MALCOLM D; *STUDENT SCIENCE TRAINING (SPI-7925259)*; 10 MONTHS $9,250

ST MARY'S COLLEGE

ALSUM, DONALD J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000233)*; 18 MONTHS $26,258

FOSTER, DOUGLAS; *INSTRUCTIONAL IMPROVEMENT OF RADIATION BIOLOGY AND RELATED COURSE OFFERINGS (SER-8015466)*; 30 MONTHS $8,000

ST OLAF COLLEGE

FJELSTAD, PAUL; *FOCUSING STUDENTS' CREATIVE MATH ABILITIES ON THEIR FIELDS OF INTEREST (SER-8000988)*; 30 MONTHS $22,625

STEEN, LYNN A; *MICROCOMPUTER INSTRUCTIONAL UNITS (FOR 11TH AND 12TH GRADE MATHEMATICS) USING SIMULATION OF MATHEMATICAL MODELLING (SED-8012463)*; 30 MONTHS $35,546

UNIVERSITY OF MINNESOTA

GARRARD, WILLIAM L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926599)*; 12 MONTHS $13,020

SAUERBIER, WALTER; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926922)*; 12 MONTHS $19,700

GENNARO, EUGENE D; *OUT OF SCHOOL SCIENCE FOR PRE-ADOLESCENT/ ADOLESCENT CHILDREN AND THEIR PARENTS (SED-8007872)*; 24 MONTHS $158,400

TRUAX, ANNE T, AND SPECTOR, JANET D; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008195)*; 21 MONTHS $19,770

RIAZ, MAHMOUD; *ELECTROMECHANICAL ENERGY CONVERSION AND POWER SYSTEMS LABORATORY (SER-8013913)*; 30 MONTHS $20,000

DAVIS, MARGARET B; *IMPROVED LABORATORY INSTRUCTION IN ECOLOGY AND BEHAVIOR (SER-8015459)*; 30 MONTHS $19,999

UNIVERSITY OF MINNESOTA AT DULUTH

GALLIAN, JOSEPH A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926564)*; 12 MONTHS $5,995

HENDRICKSON, A D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000318)*; 18 MONTHS $27,597

HEDMAN, STEPHEN C; *ENHANCEMENT OF QUANTITATIVE METHODOLOGY IN THE UNDERGRADUATE BIOLOGY CURRICULUM (SER-8014391)*; 30 MONTHS $3,517

POE, DONALD P; *EQUIPMENT FOR LABORATORY INSTRUCTION IN CHEMICAL SEPARATIONS (SER-8015253)*; 30 MONTHS $7,200

UNIVERSITY OF MINNESOTA AT SAINT PAUL

WELCH, WAYNE W; *SURVEY OF SCIENCE UNDERSTANDING AND ATTITUDES (SED-8021125)*; 12 MONTHS $140,000

MISSISSIPPI

ALCORN STATE UNIVERSITY

LEARD, ROBERT E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926929)*; 12 MONTHS $9,884

EDNEY, NORRIS A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001139)*; 18 MONTHS $28,019

MCCOWAN, JEFFERSON; *STUDENT-ORIGINATED STUDIES (SPI-8004050)*; 12 MONTHS $9,704

JACKSON STATE UNIVERSITY

TROTTMAN, CHARLES H; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000756)*; 18 MONTHS $34,448

JEFFERSON, FRANKLIN; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009097)*; 24 MONTHS $26,145

WODETZKI, MARGARET; *IMPROVEMENT IN GENERAL CHEMISTRY LABORATORIES (SER-8015091)*; 30 MONTHS $10,770

MISSISSIPPI INDUSTRIAL COLLEGE

DEBRO, LAJOYCE; *STUDENT SCIENCE TRAINING (SPI-7925524*)*; 10 MONTHS $24,800

PERKINS, MURIEL W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000401)*; 18 MONTHS $16,840

MISSISSIPPI STATE UNIVERSITY

HODGE, B K; *DEVELOPMENT AND IMPROVEMENT OF A COURSE IN ENERGY SYSTEMS DESIGN (SER-8001005)*; 30 MONTHS $8,361

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019088)*; 36 MONTHS $7,720

MISSISSIPPI VALLEY STATE UNIVERSITY

FORD, CAROLYN B; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000551)*; 18 MONTHS $22,853

TOUGALOO COLLEGE

ROZMAN, STEPHEN L; *STUDENT SCIENCE TRAINING (SPI-7925912*)*; 10 MONTHS $26,360

STRETE, DENNIS; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000587)*; 18 MONTHS $27,192

STRETE, DENNIS; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001293)*; 18 MONTHS $18,188

UNIVERSITY OF MISSISSIPPI

BORNE, RONALD F; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926577)*; 12 MONTHS $16,000

HEIN, HAROLD C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001117)*; 18 MONTHS $13,963

COX, FRANK W; *STUDENT-ORIGINATED STUDIES (SPI-8004292)*; 12 MONTHS $10,693

BOLEN, LEE N; *EXPANDED ACOUSTICS LABORATORY WITH MULTIDISCIPLINARY APPLICATION (SER-8014507)*; 30 MONTHS $8,425

COOK, DAVID E; *COMPUTER AND GRAPHIC AID TO TEACHING CALCULUS (SER-8014508)*; 30 MONTHS $2,797

UNIVERSITY OF SOUTHERN MISSISSIPPI

DUNIGAN, NANCY C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000104)*; 18 MONTHS $29,591

DOBLIN, STEPHEN A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000129)*; 18 MONTHS $32,026

CADE, RUTH ANN; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000384)*; 18 MONTHS $26,314

CADE, RUTH ANN; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008196)*; 15 MONTHS $19,958

MISSOURI

DRURY COLLEGE

PADRON, JORGE L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000222)*; 10 MONTHS $23,828

INDIVIDUAL AWARD

MCELENEY, JAMES D; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016369)*; 30 MONTHS $11,000

RATCLIFF, RICHARD E; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016374)*; 30 MONTHS $25,274

MARYVILLE COLLEGE-SAINT LOUIS

WOLDOW, NORMAN; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000622)*; 18 MONTHS $36,716

SPARLING, DANIEL L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000739)*; 18 MONTHS $38,614

MISSOURI WESTERN STATE COLLEGE

SCHWARZ, RICHARD M; *STUDENT SCIENCE TRAINING (SPI-7925199)*; 10 MONTHS $14,410

NORTHEAST MISSOURI STATE UNIVERSITY

ROSEBERY, DEAN A; *STUDENT SCIENCE TRAINING (SPI-7925508)*; 10 MONTHS $21,500

SOUTHWEST MISSOURI STATE UNIVERSITY

AWAD, MASSOUD M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000310)*; 18 MONTHS $19,182

WOLF, GEORGE W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000317)*; 18 MONTHS $31,729

ST LOUIS UNIVERSITY

SPAZIANO, VINCENT T; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926862)*; 12 MONTHS $19,591

BEESON, RICHARD O; *INTERDISCIPLINARY INTRODUCTORY INFERENTIAL STATISTICS (SER-8001369)*; 30 MONTHS $23,388

UNIVERSITY OF MISSOURI, COLUMBIA

STROM, ROBERT J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000175)*; 18 MONTHS $43,707

BULL, STANLEY R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000731)*; 18 MONTHS $37,003

MCDONALD, ANITA D; *A REMEDIAL/DEVELOPMENTAL MATHEMATICS PROGRAM USING MICROCOMPUTERS AND VIDEOTAPES (SER-8000965)*; 30 MONTHS $23,908

MILLER, WILLIAM H; *AN ENERGY PERSPECTIVES COURSE FOR PRESERVICE SCIENCE INSTRUCTORS (SER-8001358)*; 30 MONTHS $18,810

UNIVERSITY OF MISSOURI, ROLLA

SPARLIN, DON M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926561)*; 12 MONTHS $19,407

BETTEN, J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000088)*; 18 MONTHS $30,000

STOFFER, JAMES O; *DEVELOPMENT OF A POLYMER SCIENCE LABORATORY COURSE (SER-8000837)*; 30 MONTHS $23,652

UNIVERSITY OF MISSOURI, ST LOUIS

CHICKOS, JAMES S; *IMPROVEMENT OF UNDERGRADUATE NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY FACILITIES (SER-8012851)*; 30 MONTHS $9,385

WASHINGTON UNIVERSITY

WAX, MURRAY L; *EHTICAL PROBLEMS OF FIELDWORK IN ANTHROPOLOGY AND SOCIOLOGY (OSS-7716288 A01)*; 10 MONTHS $45,991

WAX, MURRAY L; *ETHICAL PROBLEMS OF FIELDWORK (OSS-7716288 A02)*; 12 MONTHS $18,758

DUDUKOVIC, MILORAD P; *AN INTEGRATED APPROACH TO REACTON ENGINEERING (SER-8000792)*; 30 MONTHS $24,986

STORANDT, MARTHA; *COLLEGE FACULTY CONFERENCE (SPI-8003493)*; 18 MONTHS $49,798

JOSEPH, BABU, ELLIOTT, DAVID L, AND POWELL, ROBERT L; *DIGITAL COMPUTER CONTROL LABORATORY (SER-8012760)*; 30 MONTHS $13,131

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019197*)*; 60 MONTHS $7,720

MONTANA

EASTERN MONTANA COLLEGE

STANNARD, WILLIAM A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001315)*; 18 MONTHS $44,022

INDIVIDUAL AWARD

DOW, MARTHA A; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013272)*; 42 MONTHS $9,924

SCHMIDT, JACK C; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016376)*; 30 MONTHS $19,665

WEHRENBERG, JOHN P; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016380)*; 30 MONTHS $7,944

MILES COMMUNITY COLLEGE

KOCH, JOHN C; *FORUMS ON WEATHER MODIFICATION IN MONTANA (OSS-7927228)*; 24 MONTHS $49,382

MONTANA COLLEGE OF MINERAL SCIENCE & TECH

TWIDWELL, LARRY G; *EQUIPMENT TO IMPROVE TEACHING OF HYDROMETALLURGY (SER-8013885)*; 30 MONTHS $6,460

MONTANA STATE UNIVERSITY
EMERSON, KENNETH; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926853)*; 12 MONTHS $18,919
ASHLEY, JOSEPH M; *IMAGE ENHANCEMENT EQUIPMENT FOR SPACE-AGE TEACHING (SER-8013227)*; 30 MONTHS $20,000

NORTHERN MONTANA COLLEGE
PITT, C EVERETT; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001900)*; 18 MONTHS $16,076

NORTHERN ROCKIES ACTION GROUP INC
BRYAN, WILLIAM L; *PLANNING A NORTHERN ROCKIES RESOURCE AND TRAINING CENTER (OSS-7927255)*; 12 MONTHS $55,232

UNIVERSITY OF MONTANA
LOFTSGAARDEN, DON O; *IMPROVEMENT OF SELECTED MATHEMATICS COURSES WITH ADDITIONAL COMPUTING (SER-8012743)*; 30 MONTHS $11,923

NEBRASKA

BELLEVUE COLLEGE
LANHAM, ORVILLE; *STUDENT SCIENCE TRAINING (SPI-7925841)*; 12 MONTHS $14,130

KEARNEY STATE COLLEGE
CARLSON, ROGER L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000073)*; 18 MONTHS $26,900
ROARK, JAMES L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000149)*; 18 MONTHS $10,627
CARLSON, ROGER L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000212)*; 18 MONTHS $19,322

NEBRASKA WESLEYAN UNIVERSITY
FAIRCHILD, ROBERT W; *IMPROVEMENT OF ELECTRONICS AND MICROCOMPUTER SYSTEMS INSTRUCTION (SER-8013372)*; 30 MONTHS $3,600

UNIVERSITY OF NEBRASKA AT LINCOLN
NOGAR, NICHOLAS S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7927184)*; 12 MONTHS $17,500
LEONARD, WILLIAM H; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000198)*; 10 MONTHS $28,299
WELCH, SUSAN; *PREPARING COMPUTER AIDED INSTRUCTIONAL MODULES FOR SOCIAL METHODS COURSES (SER-8000871)*; 30 MONTHS $23,881
NAGY, GEORGE; *LECTURELESS COURSE FOR TEACHING A SECOND PROGRAMMING LANGUAGE (SER-8001376)*; 30 MONTHS $23,972
GALBRAITH, DAVID W; *EQUIPMENT TO ESTABLISH A CELL BIOLOGY LABORATORY (SER-8014764)*; 30 MONTHS $17,765
FULLER, ROBERT G; *INDIVIDUALIZED COMPUTER DIRECTED PHYSICS LABORATORIES (SER-8014769)*; 30 MONTHS $19,190
FLOWERS, JOHN H; *PORTABLE MICROCOMPUTER UNITS FOR TRAINING IN PSYCHOLOGICAL INQUIRY (SER-8015123)*; 30 MONTHS $7,378

UNIVERSITY OF NEBRASKA AT OMAHA
WOOD, JAMES K; *ORGANIC CHEMISTRY AT ITS BEST: THREE DIMENSIONAL AND DYNAMIC (SER-8000814)*; 30 MONTHS $24,140

NEVADA

INDIVIDUAL AWARD
GRAYZECK, EDWIN J; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013271)*; 42 MONTHS $28,110

UNIVERSITY OF NEVADA, LAS VEGAS
LYONS, KATHLEEN P; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001140)*; 18 MONTHS $22,286
SHERMAN, STEPHEN W; *AN OPERATING SYSTEMS AND GRAPHICS LABORATORY FOR COMPUTER SCIENCE (SER-8012757)*; 30 MONTHS $20,000

UNIVERSITY OF NEVADA, RENO
JOHNSON, BRUCE P; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926557)*; 12 MONTHS $17,815
BURKHART, RICHARD D; *UTILIZATION OF COMPUTER GRAPHICS IN PHYSICAL CHEMISTRY (SER-8000810)*; 30 MONTHS $9,927

NEW HAMPSHIRE

DARTMOUTH COLLEGE
ZAITLIN, MARK P; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926863)*; 12 MONTHS $17,500
HUGGINS, ELISHA R; *CAUSE: INTEGRATED STANDARDIZED GRAPHICAL COMPUTER SYSTEM FOR UNDERGRADUATE SCIENCE EDUCATION (SER-8005322)*; 18 MONTHS $120,000

INDIVIDUAL AWARD
SNELL, J L; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013270)*; 43 MONTHS $29,650
KIMBALL, KENNETH D; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016366)*; 30 MONTHS $15,740
GERT, BERNARD; *SUSTAINED DEVELOPMENT AWARD (OSS-8018088)*; 64 MONTHS $18,250

MONTSHIRE MUSEUM OF SCIENCE
QUINN, ALLIE; *MONTSHIRE PUBLIC SERVICE SCIENCE CENTER (OSS-7923389)*; 12 MONTHS $77,280

ST ANSELM'S COLLEGE
MURRAY, KEVIN T; *STUDENT-ORIGINATED STUDIES (SPI-8004013)*; 12 MONTHS $11,790

UNIVERSITY OF NEW HAMPSHIRE, DURHAM
AMELL, A R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000543)*; 10 MONTHS $32,952
DAVIS, JAMES R; *DEVELOPING STATISTICAL INTUITIONS: INTERACTIVE MICROCOMPUTER GRAPHICS FOR THE CLASSROOM (SER-8001374)*; 30 MONTHS $10,932
RUSSELL, ROBERT D; *EQUIPMENT FOR A LABORATORY IN COMPUTER OPERATING SYSTEMS (SER-8015143)*; 30 MONTHS $19,425

NEW JERSEY

ATLANTIC COMMUNITY COLLEGE
BROWN, THOMAS E; *CAUSE: IMPROVEMENT OF SCIENCE CURRICULA WITH PLANT AND ANIMAL FACILITIES (SER-8004788)*; 12 MONTHS $87,743

BLOOMFIELD COLLEGE
KOLODIY, GEORGE; *PIAGETIAN-BASED INSTRUCTIONAL MODULES FOR INTEGRATED MATH/SCIENCE COURSES (SER-8000961)*; 30 MONTHS $20,859

COLLEGE OF ST ELIZABETH
SMITH, MARIAN J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000639)*; 18 MONTHS $22,246

FAIRLEIGH DICKINSON UNIVERSITY
STRANGE, RONALD S; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000580)*; 18 MONTHS $31,542

GEORGIAN COURT COLLEGE
FARLEY, MARY N; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000231)*; 18 MONTHS $17,143

INDIVIDUAL AWARD
WOOD, ROGER C; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013107)*; 42 MONTHS $19,953
MEDSKER, L R; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016370)*; 30 MONTHS $23,400

MONMOUTH COLLEGE
NAIK, DATTA V; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001107)*; 18 MONTHS $21,912

NEW JERSEY INSTITUTE OF TECHNOLOGY
KIMMEL, HOWARD S; *STUDENT SCIENCE TRAINING (SPI-7925194)*; 10 MONTHS $12,240
DEUTSCHMAN, HAROLD D; *STUDENT SCIENCE TRAINING (SPI-7925196)*; 10 MONTHS $12,640
KIMMEL, HOWARD S; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000314)*; 18 MONTHS $24,964
RYON, JOHN W; *DEVELOPMENT OF A GUIDED DESIGN WORKSHOP IN COMPUTER SOFTWARE ENGINEERING (SER-8001490)*; 30 MONTHS $24,024
COCHIN, IRA; *PHYSICALLY HANDICAPPED IN SCIENCE (SPI-8005432)*; 12 MONTHS $47,626
DEUTSCHMAN, HAROLD D; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8013679)*; 16 MONTHS $12,500

PRINCETON UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019170*)*; 60 MONTHS $23,160

RIDER COLLEGE
MCCARROLL, WILLIAM H; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001273)*; 18 MONTHS $14,356
SIMPSON, ROBERT L; *BIOLOGICAL SCIENCES CURRICULUM IMPROVEMENT AT RIDER COLLEGE: A REQUEST FOR GROWTH CHAMBERS (SER-8014801)*; 30 MONTHS $9,139

RUTGERS UNIVERSITY-BUSCH CAMPUS
TERESI, CHRISTINA M; *STUDENT-ORIGINATED STUDIES (SPI-8004100)*; 12 MONTHS $11,664

RUTGERS UNIVERSITY-COOK COLLEGE
EVELEIGH, DOUGLAS E; *A QUANTITATIVE APPROACH TO MICROBIOLOGY (SER-8014770)*; 30 MONTHS $20,000

SETON HALL UNIVERSITY
HIRSCH, ROLAND F; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926582)*; 12 MONTHS $9,082
ASHWORTH, HARRY A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000389)*; 18 MONTHS $18,180
ASHWORTH, HARRY A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000389 A01)*; 18 MONTHS $104
FRANKE, CHARLES H; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000724)*; 18 MONTHS $13,524

STEVENS INSTITUTE OF TECHNOLOGY
MANHAS, MAGHAR S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7927088)*; 12 MONTHS $19,842
MALINOWSKI, EDMUND R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000414)*; 18 MONTHS $25,250
LAPIDUS, I R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000568)*; 18 MONTHS $21,988

HALSTEAD-NUSSLO, RICHARD; *DEVELOPMENT OF A COMPUTER BASED HUMAN FACTORS LABORATORY COURSE FOR UNDERGRADUATES (SER-8001346)*; 30 MONTHS $24,971

OHRING, MILTON; *A FUNDAMENTAL MATERIALS PROCESSING AND FABRICATION LABORATORY (SER-8013855)*; 30 MONTHS $17,169

TRENTON STATE COLLEGE

PREGGER, FRED T; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000355)*; 18 MONTHS $22,144

RIEDERER, ALOIS J; *CAUSE: COMPREHENSIVE IMPROVEMENT OF ELECTRONICS EDUCATION VIA THE INTEGRATION OF MICROCOMPUTER TECHNOLOGY (SER-8005282)*; 36 MONTHS $249,903

NICHOLLS, GERALD P; *INTERDISCIPLINARY RADIATION LABORATORY IMPROVEMENT (SER-8015259)*; 30 MONTHS $20,000

UPSALA COLLEGE

NOBLE, ROSIE A; *STUDENT SCIENCE TRAINING (SPI-7925861*)*; 20 MONTHS $6,220

NEW MEXICO

ALL INDIAN PUEBLO COUNCIL

HAKES, JUDITH A; *COMPUTER STORYTELLING MATHEMATICS FOR PUEBLO INDIAN UPPERELEMENTARY LEVEL STUDENTS (SED-8012482)*; 12 MONTHS $28,594

INDIVIDUAL AWARD

VANHEUVELEN, ALAN; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013298)*; 42 MONTHS $23,644

NEW MEXICO HIGHLANDS UNIVERSITY

RIVERA, GILBERT D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001224)*; 18 MONTHS $49,360

NEW MEXICO STATE UNIVERSITY

HEATON, MARIE M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926840)*; 12 MONTHS $11,061

ADAMS, J M; *CAUSE: INTEGRATION OF MICRO-COMPUTERS INTO MATHEMATICS CURRICULUM (SER-8005317)*; 36 MONTHS $244,750

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019089)*; 48 MONTHS $15,440

UNIVERSITY OF NEW MEXICO

TWEETEN, PAUL W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000089)*; 18 MONTHS $39,888

ZEILIK, MICHAEL; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001279)*; 18 MONTHS $13,125

HEDRICK, KIM; *STUDENT-ORIGINATED STUDIES (SPI-8005196)*; 12 MONTHS $11,911

BLACKWELL, PEGGY J; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008267)*; 20 MONTHS $20,000

BEN-DAVID, SHAUL; *A STUDY OF THE ETHICAL FOUNDATIONS OF BENEFIT-COST ANALYSIS TECHNIQUES (OSS-8014729)*; 12 MONTHS $52,084

GRIEGO, RICHARD J; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014825)*; 16 MONTHS $20,000

NEW YORK

ADELPHI UNIVERSITY

CASSIN, JOSEPH M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000311)*; 18 MONTHS $21,535

AGRICULTURAL AND TECH COLLEGE AT ALFRED

HARDMAN, RICK L; *MICROPROCESSOR LABORATORY ACTIVITY DEVELOPMENT (SER-8001356)*; 30 MONTHS $14,696

BARD COLLEGE

SPICER, DONALD; *STUDENT SCIENCE TRAINING (SPI-7925904)*; 10 MONTHS $13,760

ROSENTHAL, MICHAEL R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001245)*; 18 MONTHS $46,611

ROSENTHAL, MICHAEL R; *EQUIPMENT FOR ECOLOGY RESEARCH IN THE TIVOLI BAYS AREA (SER-8014613)*; 30 MONTHS $11,180

BARNARD COLLEGE

SILVER, RAE; *DEVELOPMENT OF INSTRUCTIONAL FILMS IN ETHOLOGY 'BEHAVIOR OF THE RING DOVE' (SED-7712124 A02)*; 28 MONTHS $67,000

BOROUGH OF MANHATTAN COMMUNITY COLLEGE

RINGEL, HERBERT; *MISIP/ SPECIAL PROJECT/ COMPUTER ELECTRONICS FOR DATA PROCESSING AND SCIENCE STUDENTS (SER-8009457)*; 24 MONTHS $5,976

BROOKHAVEN NATIONAL LABORATORY

METZ, DONALD J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000086)*; 18 MONTHS $20,700

BROOKLYN COLLEGE

GEDDES, DOROTHY; *GEOMETRIC THINKING AMONG ADOLESCENTS IN INNER CITY SCHOOLS (SED-7920640)*; 27 MONTHS $192,680

GAVURIN, LESTER L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000363)*; 18 MONTHS $35,786

GEDDES, DOROTHY; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000556)*; 18 MONTHS $34,000

CAYUGA COUNTY COMMUNITY COLLEGE

KOMANECKY, WILLIAM; *DEVELOPMENT, EVALUATION AND REVISION OF THREE NEW ELECTRONICS COURSES (SER-8001009)*; 30 MONTHS $24,300

CHILDREN'S TELEVISION WORKSHOP

MIELKE, KEITH W; *A CHILDREN'S TELEVISION SERIES ABOUT SCIENCE AND TECHNOLOGY (OSS-7811780 A02)*; 12 MONTHS $400,000

MIELKE, KEITH W; *A CHILDREN'S TELEVISION SERIES ABOUT SCIENCE AND TECHNOLOGY (OSS-7811780 A03)*; $1,350,000

CITY COLLEGE

LANDOLFI, J; *STUDENT SCIENCE TRAINING (SPI-7925295)*; 20 MONTHS $13,000

WILEN, SAMUEL H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926848)*; 12 MONTHS $18,017

POSAMENTIER, ALFRED; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000157)*; 18 MONTHS $35,051

HANKS, JESS P; *INDIVIDUALIZING INSTRUCTION IN POPULATION AND COMMUNITY BIOLOGY (SER-8000887)*; 30 MONTHS $17,264

MCKENNA, HAROLD J; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION; 'WORKSHOP FOR JUNIOR HIGH SCHOOL TEACHERS OF MINORITY STUDENTS IN HEALTH SCIENCE' (SER-8012294)*; 24 MONTHS $49,999

CLARKSON COLLEGE OF TECHNOLOGY

HARRIS, SANDRA L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926620)*; 12 MONTHS $19,840

PONCE-CAMPOS, C DAVID; *ACQUISITION OF HYDRAULIC LABORATORY EQUIPMENT (SER-8015397)*; 30 MONTHS $19,809

COLGATE UNIVERSITY

SELLECK, BRUCE W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926989)*; 12 MONTHS $11,878

NEVISON, C H; *EPISODES IN THE HISTORY OF SCIENCE, AN INTERDISCIPLINARY APPROACH (SER-8001013)*; 30 MONTHS $10,148

COLLEGE AT BROCKPORT

MORRIS, J E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926838)*; 12 MONTHS $12,000

GEER, IRA W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000156)*; 18 MONTHS $22,300

COLLEGE AT BUFFALO

KINSEY, THOMAS G; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008909)*; 9 MONTHS $5,062

COLLEGE AT CORTLAND

SILBERMAN, ROBERT; *A LEARNING CYCLE LABORATORY FOR GENERAL CHEMISTRY (SER-8000839)*; 30 MONTHS $15,659

GUSTAFSON, JOHN A; *CAUSE: FIELD SCIENCE DEVELOPMENT AT HOXIE GORGE (SER-8004856)*; 24 MONTHS $72,964

COLLEGE AT FREDONIA

BOENIG, ROBERT W; *STUDENT SCIENCE TRAINING (SPI-7925292)*; 10 MONTHS $13,390

ELLIS, ROBERT H; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000095)*; 18 MONTHS $22,310

BENDER, TIMOTHY J; *STUDENT-ORIGINATED STUDIES (SPI-8004095)*; 12 MONTHS $15,877

STORCH, THOMAS A; *ENVIRONMENTAL SCIENCES INSTRUMENTATION IMPROVEMENT PROGRAM (SER-8014612)*; 30 MONTHS $6,878

COLLEGE AT GENESEO

YOUNGERS, JOHN C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000610)*; 18 MONTHS $20,139

HERLIHY, JOHN G; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009095)*; 18 MONTHS $20,691

COLLEGE AT NEW PALTZ

NEMEROFSKY, ARNOLD; *QUANTIFICATION OF ELEMENTAL ANALYSIS BY ENERGY DISPERSION AND MICROSCOPIC REFURBISHING (SER-8015295)*; 30 MONTHS $8,300

COLLEGE AT ONEONTA

DUBINS, M IRA; *X-RAY EQUIPMENT FOR IMPROVEMENT OF UNDERGRADUATE GEOLOGY PROGRAM (SER-8012563)*; 30 MONTHS $20,000

COLLEGE AT OSWEGO

SEAGO, JAMES L; *ENHANCEMENT OF REQUIRED UNDERGRADUATE RESEARCH IN BIOLOGY (SER-8013362)*; 30 MONTHS $5,925

WOLFORD, CLYDE R; *AN ON-LINE MICROCOMPUTER LABORATORY FOR BEHAVIORAL RESEARCH (SER-8013543)*; 30 MONTHS $13,975

SWIFT, J NATHAN; *WAIT TIME AND QUESTIONING SKILLS OF MIDDLE SCHOOL SCIENCE TEACHERS (SED-8015819)*; 12 MONTHS $72,257

COLLEGE AT POTSDAM

OBRIEN, NEAL R; *REMOTE SENSING IMAGERY IN GEOLOGY TEACHING (SER-8001359)*; 30 MONTHS $11,550

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

TEPPER, HERBERT B; *CAUSE: CURRICULUM ARTICULATION IN ENVIRONMENTAL SCIENCE (SER-8004916)*; 36 MONTHS $249,477

COUFAL, JAMES E; *INSTRUCTIONAL IMPROVEMENT IN FOREST TECHNOLOGY (SER-8013210)*; 30 MONTHS $16,415

BLACK, PETER E; *HYDROLOGY LABORATORY IMPROVEMENT (SER-8015269)*; 30 MONTHS $3,948

COLLEGE OF MOUNT ST VINCENT

LOPILATO, KAREN; *MICROCOMPUTER PROGRAMMING AND INTERFACE PROJECT (SER-8013988);* 30 MONTHS $5,795

COLLEGE OF STATEN ISLAND-ST GEORGE

BERGER, J J, AND GOLDBERG, HARRIS P; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001256);* 18 MONTHS $47,673

COLUMBIA UNIVERSITY

GUTTMACHER, SALLY; *DRUGS AS MEDICAL TECHNOLOGY: ETHICAL ISSUES IN THE TREATMENT OF BORDERLINE HYPERTENSION (OSS-7806821 A01);* 18 MONTHS $146,608

SACHS, ALLAN M; *STUDENT SCIENCE TRAINING (SPI-7925510);* 20 MONTHS $37,390

CONSUMER COMMISS ON ACCRED OF HLTH SERVS INC

RUBIN, DONALD; *A CONSUMER HEALTH POLICY INFORMATION AND RESOURCE CENTER FOR NEW YORK CITY (OSS-7923391);* 12 MONTHS $52,672

CONSUMERS UNION FOUNDATION INC

SIEGEL, LAWRENCE J; *LEAD IN THE URBAN ENVIRONMENT: A PROGRAM FOR CITIZEN EDUCATION (OSS-8016348);* 12 MONTHS $78,359

COOPER UNION

LEMEE, JEAN; *PROFESSIONAL COMPETENCES DEVELOPMENT IN THE UNDERGRADUATE ENGINEERING CURRICULUM (SED-7919004 A01);* 24 MONTHS $142,600

GUIDO, VITO A; *IMPLEMENTATION OF A COMPREHENSIVE SOIL MECHANICS LABORATORY (SER-8013823);* 30 MONTHS $13,506

EFE, YUSUF Z; *IMPLEMENTATION OF A NEW MICROCOMPUTER LABORATORY (SER-8014496);* 30 MONTHS $20,000

CORNELL UNIVERSITY

HEISER, J B; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000582);* 18 MONTHS $16,072

LEMLEY, ANN T; *DEVELOPMENT OF A CONSUMER SCIENCE COURSE: APPLICATIONS OF SCIENTIFIC PRINCIPLES TO SOCIETAL PROBLEMS (SER-8000879);* 30 MONTHS $21,004

HOWLAND, HOWARD C; *MICROCOMPUTER USE IN PHYSIOLOGY LECTURES AND LABORATORY EXERCISES (SER-8015165);* 30 MONTHS $5,179

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019125*);* 60 MONTHS $46,320

CRIMINAL JUSTICE RESEARCH CENTER INC

ELLISTON, FREDERICK A; *THE ETHICS AND PRAGMATICS OF WHISTLE-BLOWING: TEN CASE STUDIES OF ORGANIZATIONAL SCIENTISTS AND ENGINEERS (OSS-8006559);* 24 MONTHS $75,731

DOWLING COLLEGE

YOUTH, ROBERT A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000754);* 18 MONTHS $30,428

EDUCATIONAL BROADCASTING CORPORATION

THOMAS, RICHARD; *A PUBLIC TELEVISION SERIES ABOUT BRAIN RESEARCH (OSS-7917905);* 12 MONTHS $100,000

EDUCATIONAL SOLUTIONS INC

GATTEGNO, CALEB; *MICROCOMPUTER COURSEWARE TO DEVELOP INSIGHT INTO ARITHMETIC USING PERCEIVABLE ALGORITHMS (SED-8012612);* 17 MONTHS $52,000

HOUGHTON COLLEGE

WILSON, ROBERT E; *STUDENT-ORIGINATED STUDIES (SPI-8004091);* 12 MONTHS $9,610

HUNTER COLLEGE

NIMAN, JOHN; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000343);* 18 MONTHS $29,311

GROSSMAN, WILLIAM E L; *MICROCOMPUTERS IN CHEMISTRY (SER-8013938);* 30 MONTHS $19,500

CHASE, SHEILA; *IMPROVEMENT OF INSTRUCTION IN EXPERIMENTAL PSYCHOLOGY (SER-8014635);* 30 MONTHS $10,486

INDIVIDUAL AWARD

BROWN, PATRICIA S; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013095);* 42 MONTHS $29,336

HOLBROW, CHARLES H; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013104);* 42 MONTHS $26,123

DIENER, DAVID A; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013109);* 42 MONTHS $14,223

WILLIAMS, ROBERT C; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013112);* 42 MONTHS $23,932

DOUGHERTY, CHARLES M; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013115);* 42 MONTHS $16,961

MACFARLANE, RICHARD D; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013268);* 42 MONTHS $27,307

BURGHARDT, M D; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013281);* 42 MONTHS $16,271

CHAMBERLAIN, JR, JOHN A; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013284);* 42 MONTHS $21,690

PARSTON, GREGORY E; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016371);* 30 MONTHS $30,225

CASSELL, ERIC J; *SUSTAINED DEVELOPMENT AWARD (OSS-8018086);* 64 MONTHS $18,250

BAKER, ROBERT; *INTERDISCIPLINARY INCENTIVE AWARD (OSS-8018090);* 40 MONTHS $18,000

CLEMENTS, COLLEEN D; *INTERDISCIPLINARY INCENTIVE AWARD (OSS-8018092);* 40 MONTHS $24,000

NEAL, JEANNETTE G; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8019895);* 39 MONTHS $25,446

ITHACA COLLEGE

DARROW, FRANK W; *STUDENT SCIENCE TRAINING (SPI-7925953);* 10 MONTHS $12,380

WODZINSKI, RICHARD S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926555);* 12 MONTHS $11,004

TAMAS, IMRE A; *COURSE DEVELOPMENT IN PRACTICAL BOTANY (SER-8001372);* 30 MONTHS $19,612

JOHN JAY COLLEGE OF CRIMINAL JUSTICE

ROTHCHILD, ROBERT; *AN NMR SPECTROMETER FOR A FORENSIC PROGRAM (SER-8015293);* 30 MONTHS $10,050

LONG ISLAND UNIVERSITY-BROOKLYN CENTER

LONG, MADELEINE J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000146);* 18 MONTHS $50,000

GROSS, STEPHEN M; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010736);* 42 MONTHS $89,040

MANHATTAN COLLEGE

CHAROLA, A E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926935);* 12 MONTHS $9,880

MARIST COLLEGE

MENAPACE, LAWRENCE W; *STUDENT SCIENCE TRAINING (SPI-7925252);* 10 MONTHS $12,000

PERROTTE, WILLIAM T; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001118);* 18 MONTHS $18,376

PERROTTE, WILLIAM T; *PHYSICALLY HANDICAPPED IN SCIENCE (SPI-8005427);* 25 MONTHS $45,886

MOUNT ST MARY COLLEGE

LESSOR, EDITH S; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000652);* 18 MONTHS $18,564

NEW YORK ACADEMY OF SCIENCES

SULLIVAN, PAUL J; *STUDENT SCIENCE TRAINING (SPI-7926355);* 10 MONTHS $8,860

SILLS, DAVID L; *CONFERENCE ON THE THREE-MILE ISLAND ACCIDENT (OSS-8006655*);* 12 MONTHS $15,000

BRISCOE, ANNE M; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008553);* 12 MONTHS $19,862

NEW YORK CITY COMMUNITY COLLEGE

AFRICK, HENRY L; *CAUSE: IMPROVING STUDENT PROGRESS IN MATHEMATICS USING COMPUTER-ASSISTED INSTRUCTION (SER-8005320);* 36 MONTHS $173,660

NEW YORK STATE HISTORICAL ASSOCIATION

TAHK, CHRISTOPH; *A REQUEST FOR X-RAY POWDER DIFFRACTION EQUIPMENT (SER-7919944);* 12 MONTHS $21,148

NEW YORK UNIVERSITY

SALWEN, BERT; *UNDERGRADUATE INSTRUCTIONAL EQUIPMENT IN ARCHEOLOGY AND PHYSICAL ANTHROPOLOGY (SER-8015050);* 30 MONTHS $13,940

POLYTECHNIC INSTITUTE OF NEW YORK

KAUFMAN, HAROLD G; *FACTORS RELATED TO LIFE-LONG LEARNING FOR SCIENTISTS AND ENGINEERS: A FEASIBILITY STUDY (SED-7920376);* 18 MONTHS $70,000

ZELDIN, MARTEL; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926992);* 12 MONTHS $17,104

BULKIN, BERNARD J; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005657);* 16 MONTHS $51,323

PIGNATARO, LOUIS J; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8008188);* 27 MONTHS $100,000

DARUVALA, H S; *ELECTROCHEMICAL METHODS IN CORROSION MEASUREMENTS (SER-8014621);* 30 MONTHS $6,100

QUEENS COLLEGE

WHITE, PHILIP; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000600);* 18 MONTHS $48,041

NEWMAN, CLAIRE; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001288);* 18 MONTHS $32,200

ZEVIN, JACK; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009104);* 24 MONTHS $29,188

RENSSELAER POLYTECHNIC INSTITUTE

FLORES, ALBERT W; *ENGINEERING ETHICS IN ORGANIZATIONAL CONTEXTS: CASE STUDIES (OSS-7917916);* 24 MONTHS $139,600

BUNCE, STANLEY C; *A COMPUTER BASED ANNOTATED LIST OF LABORATORY EXPERIMENTS IN COLLEGE CHEMISTRY (SED-7923685);* 27 MONTHS $14,900

WOLFE, JOHN K; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926865);* 12 MONTHS $17,850

MEDICUS, HEINRICH A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926887);* 12 MONTHS $18,835

FLEISHMAN, BERNARD A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000591);* 18 MONTHS $31,181

HEINER, KARL W; *IMPROVEMENT OF INTRODUCTORY UNDERGRADUATE PROBABILITY AND STATISTICS USING INTERACTIVE COMPUTER GRAPHICS (SER-8000976)*; 30 MONTHS $25,000
ELLISON, DAVID L; *COMPUTER ASSISTED SOCIOLOGY COURSE (SER-8001431)*; 30 MONTHS $25,000
LUCHINS, EDITH H; *IMPROVING SPATIAL SKILLS IN PRE-COLLEGE MATHEMATICS THROUGH COMPUTER GRAPHICS (SED-8018639)*; 18 MONTHS $82,169
FREEMAN, HERBERT; *HIGH SPEED LOGIC DESIGN AND SYSTEM EVALUATION (SER-8015029)*; 30 MONTHS $20,000

ROCHESTER INSTITUTE OF TECHNOLOGY

HILBORN, DAVID A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000416)*; 18 MONTHS $22,316
KRAKOWER, EARL; *THE DEVELOPMENT OF A CHEMISTRY-TOXICOLOGY INTERFACE COURSE (SER-8000781)*; 30 MONTHS $24,480
FREDERICK, G THOMAS; *IMPROVEMENT OF UNDERGRADUATE INSTRUCTION IN ELECTRON MICROSCOPY (SER-8013396)*; 30 MONTHS $20,000

ROCKEFELLER UNIVERSITY

SIEKEVITZ, PHILIP; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000588)*; 18 MONTHS $46,889

ST JOHN'S UNIVERSITY

JESPERSEN, NEIL D; *INTEGRATION OF MASS SPECTROMETRY INTO THE CHEMISTRY CURRICULUM (SER-8014466)*; 30 MONTHS $7,656

STATE UNIVERSITY AT ALBANY

HENDERSON, FLOYD M; *DIGITAL IMAGE ANALYSIS EQUIPMENT (SER-8004413*)*; 30 MONTHS $8,000
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019094)*; 48 MONTHS $7,720

STATE UNIVERSITY AT BINGHAMTON

ZIEGENHAGEN, EDUARD A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926623)*; 12 MONTHS $19,803
WARE, CAROLYN B; *COMMUNITY FORUMS ON DEINSTITUTIONALIZATION IN BROOME COUNTY (OSS-7927084)*; 24 MONTHS $51,580
POLYA, LANCE; *MATERIALS TO TEACH SYSTEMS THINKING TO NON-TECHNICAL COLLEGE STUDENTS (SER-8020197*)*; 24 MONTHS $15,854

STATE UNIVERSITY AT BUFFALO

SOONG, TSU T; *LABORATORY FOR PROBABILITY AND STATISTICAL INFERENCE IN UNDERGRADUATE SCIENCE EDUCATION (SER-8000783)*; 29 MONTHS $25,000

STATE UNIVERSITY AT STONY BROOK

PRESTWICH, GLENN D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926597)*; 12 MONTHS $19,769
LASER, KENNETH D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000338)*; 18 MONTHS $22,249
COHEN, RUTH; *STUDENT-ORIGINATED STUDIES (SPI-8004005)*; 12 MONTHS $11,841
HENDERSON, PETER B; *COMPUTER SCIENCE UNDERGRADUATE LABORATORY (SER-8013878)*; 30 MONTHS $20,000

STATE UNIVERSITY OF NEW YORK SYSTEM OFFICE

GANNON, JOHN E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000191)*; 18 MONTHS $18,500

SYRACUSE UNIVERSITY

LAGRAFF, JOHN E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926888)*; 12 MONTHS $12,000
MONMONIER, MARK S; *REPROGRAPHIC EQUIPMENT FOR UNDERGRADUATE INSTRUCTION IN CARTOGRAPHY (SER-8013361)*; 30 MONTHS $4,723
KLETSKY, EARL J; *SENIOR-LEVEL BIOINSTRUMENTATION LABORATORY (SER-8013583)*; 30 MONTHS $9,240
HOWE, ANN C; *CLASSROOM PROCESS VARIABLES IN URBAN INTEGRATED JUNIOR HIGH SCHOOL INDIVIDUALIZED SCIENCE PROGRAMS (SED-8014209)*; 15 MONTHS $70,670
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019182*)*; 60 MONTHS $7,720

TEACHERS COLLEGE

BROWNSTEIN, BONNIE; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000609)*; 18 MONTHS $49,993

UNION COLLEGE

MILILLO, FRANK; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926572)*; 12 MONTHS $9,822
JONES, C C; *CONDENSED MATTER COMPONENT OF A MODERN PHYSICS LABORATORY (SER-8013821)*; 30 MONTHS $7,556

UNITED NATIONS ASSOCIATION

BASSOW, WHITMAN; *A PROGRAM TO IMPROVE THE QUALITY OF MEDIA COVERAGE OF ENERGY/ENVIRONMENT ISSUES (OSS-7923930)*; 12 MONTHS $90,981

UNIVERSITY OF ROCHESTER

BINGER, EMILY; *STUDENT-ORIGINATED STUDIES (SPI-8004012)*; 12 MONTHS $10,964
KNOX, ROBERT S; *ACOUSTICS LABORATORY COURSE FOR NON-PHYSICISTS (SER-8014356)*; 30 MONTHS $17,975
TEEGARDEN, KENNETH J; *ENRICHMENT OF OPTICS LABORATORY (SER-8015223)*; 30 MONTHS $8,100

VASSAR COLLEGE

WILLIAMS, DONALD B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926915)*; 12 MONTHS $18,000
FISHER, CYNTHIA; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT (SER-8014038)*; 30 MONTHS $6,256

YORK COLLEGE

RICHARDS, LYNNE; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926913)*; 12 MONTHS $12,000

NORTH CAROLINA

APPALACHIAN STATE UNIVERSITY

TASHNER, JOHN H; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000302)*; 18 MONTHS $22,263
SCHIEREN, GEORGE A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000303)*; 18 MONTHS $18,302

BARBER-SCOTIA COLLEGE

RAJASEKHARA, KOOSAPPA; *IPA MOBILITY ASSIGNMENT (K. RAJASEKHARA) (SER-8000515)*; 12 MONTHS $47,943

BENNETT COLLEGE

WATKINS, NELLOUISE; *IPA MOBILITY ASSIGNMENT (SER-8016175)*; 6 MONTHS $20,466

DUKE UNIVERSITY

CRUMBLISS, ALVIN L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926556)*; 12 MONTHS $19,974
BROH, C ANTHONY; *AUDIO VISUAL AIDED LABORATORIES AND NETWORK COMPUTERS IN HIGHER EDUCATION - AVALANCHE (SER-7927324)*; 30 MONTHS $24,924
KERR, ROBERT B; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000062)*; 18 MONTHS $12,146

EAST CAROLINA UNIVERSITY

MATTHEIS, FLOYD E; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008780)*; 24 MONTHS $27,212

INDIVIDUAL AWARD

DORSEL, THOMAS N; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013285)*; 42 MONTHS $25,849
COVINGTON, METTA M; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013294)*; 42 MONTHS $22,168
PEET, MARY M; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016373)*; 30 MONTHS $21,500

LIVINGSTONE COLLEGE

LEA, SUZANNE M; *COMPUTING EQUIPMENT FOR MINORITY STUDENTS IN AN ENGINEERINC PROGRAM (SER-8014009)*; 30 MONTHS $8,649

NORTH CAROLINA AGRICULTURAL & TECH STATE UNIV

ALEXANDER, WINSER E; *CAUSE: INTERACTIVE COMPUTING FOR ENGINEERING EDUCATION (SER-8004934)*; 36 MONTHS $250,000
JEONG, DONG K; *INTERGRATING COMPUTER SKILLS IN SOCIAL SCIENCE CURRICULM (SER-8015046)*; 30 MONTHS $11,180

NORTH CAROLINA CENTRAL UNIVERSITY

HARRIS, JASPER L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000611)*; 18 MONTHS $18,900
PARKER, JOSEPH S; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001128)*; 18 MONTHS $25,440
TOWNES, MARY M; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010744)*; 42 MONTHS $22,260
CONKLIN, GEORGE H; *USING MICROCOMPUTERS TO IMPROVE STUDENT LEARNING IN INTRODUCTORY SOCIAL SCIENCE COURSES IN SOCIOLOGY AND GEOGRAPHY (SER-8015418)*; 30 MONTHS $8,117

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

JONES, LOUIS A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926874)*; 12 MONTHS $19,173
FORNARO, ROBERT J; *A SOFTWARE LABORATORY FOR A COMPUTER SCIENCE COURSE ON OPERATING SYSTEMS (SER-8000973)*; 30 MONTHS $25,000
STRENKOWSKI, JOHN S; *INSTRUCTIONAL EQUIPMENT FOR COMPUTER AIDED DESIGN FOR UNDERGRADUATE ENGINEERING EDUCATION (SER-8014373)*; 30 MONTHS $20,000
SWITZER, WILLIAM L; *DEVELOPMENT OF AN ANALYTICAL CHEMISTRY LABORATORY FOR CHEMISTRY MAJORS (SER-8015857)*; 30 MONTHS $19,974
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019090)*; 60 MONTHS $30,880

RESEARCH TRIANGLE INSTITUTE

PLACE, CAROL; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008561)*; 24 MONTHS $19,982

ST ANDREWS PRESBYTERIAN COLLEGE

APPLEGATE, ARTHUR L; *CAUSE: A MODIFIED AND IMPROVED OPEN SCIENCE PROGRAM (SER-8004775)*; 36 MONTHS $112,762

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL-INSTITUTE OF MARINE SCIENCES

MACKINTOSH, SUSAN P; *STUDENT-ORIGINATED STUDIES (SPI-8004758)*; 12 MONTHS $13,375

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

INGALLS, GERALD L; *STUDENT SCIENCE TRAINING (SPI-7925491)*; 20 MONTHS $17,520

MOHANTY, GARNESH; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926904)*; 12 MONTHS $11,980

RILLEMA, D PAUL; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000306)*; 18 MONTHS $15,418

HOWARD, GARY D; *DEVELOPMENT OF MICROCOMPUTER CONTROLLED INSTRUMENT EMULATORS FOR USE IN THE UNDERGRADUATE LABORATORIES (SER-8000844)*; 30 MONTHS $23,843

MOYERS, MARIE; *LIQUID CHROMATOGRAPHIC SYSTEM FOR UNDERGRADUATE CHEMISTRY (SER-8015988)*; 30 MONTHS $12,250

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

PUTERBAUGH, WALTER H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926633)*; 12 MONTHS $11,940

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON

LUNDEEN, CARL V; *STUDENT SCIENCE TRAINING (SPI-7925299)*; 10 MONTHS $11,510

MERRITT, JAMES F; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001114)*; 18 MONTHS $18,517

UNIVERSITY OF NORTH CAROLINA SYSTEM OFFICE

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019159*)*; 60 MONTHS $15,440

WAKE FOREST UNIVERSITY

HINZE, WILLIE L; *IMPROVEMENTS IN THE ELECTROANALYTICAL CHEMISTRY CURRICULM (SER-8015939)*; 30 MONTHS $3,900

WESTERN CAROLINA UNIVERSITY

YOUMANS, HUBERT L; *STUDENT SCIENCE TRAINING (SPI-7925988)*; 10 MONTHS $15,080

MARTIN, CHARLES J; *CAUSE: A MATHEMATICS AND SCIENCE TEACHING RESOURCE CENTER (MASTER) FOR IMPROVING MATH AND COMPUTING SKILLS (SER-8004761)*; 36 MONTHS $250,000

KEHRBERG, NOELLE L; *IMPROVEMENT OF UNDERGRADUATE FOODS AND NUTRITION LABORATORY EXPERIENCE (SER-8015899)*; 30 MONTHS $10,947

WESTERN PIEDMONT COMMUNITY COLLEGE

HARBISON, RUBY; *SOPHOMORE BIOLOGY IMPROVEMENT PROJECT (SER-8000985)*; 30 MONTHS $25,000

NORTH DAKOTA

MINOT STATE COLLEGE

SLIND, DARLA; *STUDENT-ORIGINATED STUDIES (SPI-8004019)*; 12 MONTHS $14,421

NORTH DAKOTA STATE UNIVERSITY MAIN CAMPUS

EBELING, KENNETH A; *STUDENT SCIENCE TRAINING (SPI-7925941)*; 10 MONTHS $14,900

EBELING, KENNETH A; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014589)*; 16 MONTHS $14,870

OHIO

BOWLING GREEN STATE UNIVERSITY

FULCHER, L P JR; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926831)*; 12 MONTHS $14,531

NECKERS, DOUGLAS C; *CAUSE: DEVELOPMENT AND INTEGRATION OF MODULAR CONTEMPORARY TOPICS IN CHEMISTRY COURSES (SER-8005001)*; 36 MONTHS $196,097

CAPITAL UNIVERSITY

SHOWALTER, VICTOR M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000552)*; 18 MONTHS $27,670

CASE WESTERN RESERVE UNIVERSITY

HUGHES, BARRY; *A WORLD MODEL FOR UNDERGRADUATE COLLEGE CLASSROOM USE (SED-8007313)*; 12 MONTHS $76,100

ZULL, JAMES E; *EQUIPMENT FOR MOLECULAR AND CELL BIOLOGY LABORATORY (SER-8015279)*; 30 MONTHS $20,000

CENTRAL STATE UNIVERSITY

WASHINGTON, WILLIE J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001258)*; 18 MONTHS $19,012

COLLEGE OF WOOSTER

GAUS, PAUL L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926589)*; 12 MONTHS $9,970

GAUS, PAUL L; *THE INCORPORATION OF COMPUTER-BASED LITERATURE SEARCHING METHODS INTO AN EXISTING PROGRAM OF INDEPENDENT STUDY IN CHEMISTRY (SER-8000628)*; 30 MONTHS $10,200

WISE, DONALD L; *IMPROVEMENT IN CELL PHYSIOLOGY AND PLANT PHYSIOLOGY (SER-8012745)*; 30 MONTHS $9,700

EUCLID PUBLIC SCHOOLS

TOMBAUGH, DOROTHY; *PHYSICALLY HANDICAPPED IN SCIENCE (SPI-8005431)*; 14 MONTHS $29,670

HEIDELBERG COLLEGE

RENO, MARTIN A; *CAUSE: A PROGRAM FOR COMPUTER UTILIZATION IN SCIENCE INSTRUCTION (SER-8004978)*; 36 MONTHS $244,800

FORBES, PRESTON; *EQUIPMENT FOR PHYSICS OF SOUND COURSE (SER-8015047)*; 30 MONTHS $3,300

INDIVIDUAL AWARD

SCHOONMAKER, RICHARD C; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013096)*; 42 MONTHS $24,969

MORENO, JERRY L; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013118)*; 42 MONTHS $18,725

BRUMMETT, ANNA R; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013299)*; 42 MONTHS $23,153

ARLOOK, IRA; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016359)*; 30 MONTHS $22,000

ALRUTZ, ROBERT W; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016085)*; 30 MONTHS $16,250

IBBA, MARIA; *INTERDISCIPLINARY INCENTIVE AWARD (OSS-8018094)*; 40 MONTHS $5,000

JOHN CARROLL UNIVERSITY

BARBER, K L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000113)*; 18 MONTHS $15,216

KENT STATE UNIVERSITY

TREICHLER, F ROBERT; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926594)*; 12 MONTHS $19,960

CUMMINS, KENNETH B; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000312)*; 10 MONTHS $20,391

SMITH, FRANK A; *DEVELOPMENT AND PRODUCTION OF T.V. MODULES FOR COMPUTER SCIENCE INSTRUCTION (SER-8000987)*; 30 MONTHS $23,560

FRANK, GLENN W; *VIDEO-TAPE FIELD TRIPS IN ENVIRONMENTAL GEOLOGY (SER-8001002)*; 30 MONTHS $16,234

GORDON, JOHN E; *STRUCTURE OF KNOWLEDGE AND COGNITIVE PROCESSES IN ORGANIC CHEMISTRY (SED-8020159)*; 39 MONTHS $291,136

MIAMI UNIVERSITY CENTRAL OFFICE

HOUK, T W; *DEMONSTRATIONS OF PHYSICS APPLICATIONS IN THE LIFE SCIENCES FOR LARGE CLASSES USING VIDEO TECHNIQUES (SER-8000856)*; 30 MONTHS $17,432

PYLE, JAMES L; *UTILIZATION OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER TO ENHANCE THE UNDERGRADUATE TRAINING OF CHEMISTS (SER-8015148)*; 30 MONTHS $16,050

MUSKINGUM COLLEGE

GERLACH, E R; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7925901)*; 12 MONTHS $4,623

NOTRE DAME COLLEGE

DECHANT, JEANMARIE; *STUDENT SCIENCE TRAINING (SPI-7925505)*; 20 MONTHS $17,920

GRDINA, MARY B; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001272)*; 18 MONTHS $10,022

MCCLOSKEY, T; *COMPUTER-BASED PROBLEM SOLVING FOR UNDERGRADUATES (SER-8014351)*; 30 MONTHS $20,000

OBERLIN COLLEGE

GOLDBERG, SAMUEL; *AN OPERATIONS RESEARCH PRACTICUM FOR MATHEMATICS STUDENTS (SER-8001437)*; 30 MONTHS $24,611

OHIO DOMINICAN COLLEGE

HERTRICH, MARY; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000301)*; 18 MONTHS $28,495

OHIO STATE UNIVERSITY

RALLEY, THOMAS G; *STUDENT SCIENCE TRAINING (SPI-7925544)*; 20 MONTHS $46,990

MAYER, VICTOR J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000189)*; 10 MONTHS $12,989

RILEY, WILLIAM R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001090)*; 18 MONTHS $30,777

JOHN, JAMES E; *COLLEGE FACULTY CONFERENCE (SPI-8009488)*; 18 MONTHS $47,024

ZWILLING, BRUCE S; *INTERDISCIPLINARY CELL CULTURE FACILITY (SER-8013910)*; 30 MONTHS $19,995

MAYER, VICTOR J; *A STUDY OF THE USE OF TIME-SERIES DESIGNS FOR ASSESSING THE DEVELOPMENT OF SCIENCE CONCEPTS IN ADOLESCENTS (SED-8016589)*; 12 MONTHS $27,507

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019162*)*; 60 MONTHS $30,880

OHIO UNIVERSITY

PIKAART, LEN; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000651)*; 10 MONTHS $29,449

ROBINSON, RICK E; *STUDENT-ORIGINATED STUDIES (SPI-8005697)*; 12 MONTHS $17,864

PIKAART, LEN; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008906)*; 24 MONTHS $29,981

OHIO WESLEYAN UNIVERSITY

MCQUIGG, ROBERT D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926930)*; 12 MONTHS $9,999

SANGER, JON E; *DEVELOPMENT OF UNDERGRADUATE FIELD AND LABORATORY STUDY AT THE NEWLY ACQUIRED KRAUS NATURE PRESERVE (SER-8014818)*; 30 MONTHS $8,716

FREED, JAMES M; *AUDIOVISUALS FOR A DIVERSIFIED STUDENT POPULATION IN INTRODUCTORY ZOOLOGY (SER-8014819)*; 30 MONTHS $5,344

UNIVERSITY OF AKRON MAIN CAMPUS

GRIFFIN, C F; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000743)*; 18 MONTHS $18,735

MONROE, JOHN B; *CAUSE: VIDEO TAPES FOR MATHEMATICAL REVIEW (SER-8005011)*; 24 MONTHS $73,402

UNIVERSITY OF CINCINNATI

ROLWING, RAYMOND H; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000742)*; 18 MONTHS $24,698

UNIVERSITY OF DAYTON

SHAW, CAROL M; *STUDENT SCIENCE TRAINING (SPI-7925390*)*; 10 MONTHS $25,820

WILLIAMS, PATRICK K; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926926)*; 12 MONTHS $19,931

WILLIAMS, PATRICK K; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001100)*; 18 MONTHS $32,687

MINER, GEORGE K; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005649)*; 16 MONTHS $37,530

CHERRY, NANCY C; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008251)*; 19 MONTHS $20,000

SHAW, CAROL M; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8008268)*; 40 MONTHS $150,000

SHAW, CAROL M; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014595)*; 16 MONTHS $20,000

UNIVERSITY OF TOLEDO

SCHAFF, JOHN F; *STUDENT SCIENCE TRAINING (SPI-7925257)*; 20 MONTHS $23,150

COLONY, DAVID C; *ASPHALT VISCOSITY MEASUREMENT CAPABILITY (SER-8013200)*; 30 MONTHS $3,060

SCHAFF, JOHN F; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014593)*; 16 MONTHS $20,000

WILMINGTON COLLEGE

BAYLESS, PHILIP L; *IMPROVED UNDERGRADUATE SCIENCE CURRICULUM FOR ELEMENTARY TEACHERS IN RURAL DISTRICTS (SER-8000777)*; 30 MONTHS $21,700

WITTENBERG UNIVERSITY

KRAUS, WILLIAM H; *THE USE OF MICROCOMPUTERS FOR MATHEMATICS INSTRUCTION IN GRADES 1-4 (SED-8012268)*; 24 MONTHS $16,698

WRIGHT STATE UNIVERSITY

SPALDING, GEORGE R; *COMPUTER ENGINEERING LABORATORY (SER-8000974)*; 30 MONTHS $24,975

XAVIER UNIVERSITY

BRYANT, NAPOLEON J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000732)*; 18 MONTHS $35,965

YOUNGSTOWN STATE UNIVERSITY

HANZELY, STEPHEN; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000067)*; 18 MONTHS $14,787

OKLAHOMA

CAMERON UNIVERSITY

OLSON, DWIGHT M; *A COURSE IN OPERATIONS RESEARCH (SER-8000859)*; 30 MONTHS $21,947

INDIVIDUAL AWARD

O'STEEN, JIMMIE D; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013297)*; 42 MONTHS $28,467

NORTHEASTERN OKLAHOMA STATE UNIVERSITY

WOOLEVER, PATRICIA; *STUDENT SCIENCE TRAINING (SPI-7925251*)*; 20 MONTHS $10,390

OKLAHOMA STATE UNIVERSITY

RICHARDSON, PAUL E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926962)*; 12 MONTHS $19,897

JOHNSON, BECKY B; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000606)*; 10 MONTHS $16,969

MILLS, TERENCE J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001202)*; 18 MONTHS $45,203

CASE, KENNETH E; *INTERACTIVE COMPUTER-SIMULATED GAME FOR TEACHING PROCESS QUALITY CONTROL (SER-8001433)*; 30 MONTHS $23,085

UNIVERSITY OF OKLAHOMA HEALTH SCIENCE CENTER

MAY, JUDE T; *STUDENT SCIENCE TRAINING (SPI-7925531)*; 10 MONTHS $41,350

MAY, JUDE T; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014591)*; 16 MONTHS $20,000

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

FRECH, ROGER E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926845)*; 12 MONTHS $19,362

ABRAHAM, MICHAEL R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000083)*; 18 MONTHS $31,348

SANCAKTAR, SELIM; *IMPLEMENTATION OF MODULAR COMPUTER PROGRAMS IN NUCLEAR ENGINEERING EDUCATION (SER-8000899)*; 30 MONTHS $24,997

ANDREE, RICHARD V; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001093)*; 18 MONTHS $38,100

MUMFORD, MICHAEL B; *STUDENT-ORIGINATED STUDIES (SPI-8003998)*; 12 MONTHS $9,572

ABRAHAM, MICHAEL R; *SPECTROSCOPY CENTER FOR UNDERGRADUATE CHEMISTRY MAJORS (SER-8014027)*; 30 MONTHS $30,000

EGLE, DAVIS M; *DIGITAL DATA ACQUISITION AND ANALYSIS EQUIPMENT (SER-8014049)*; 30 MONTHS $19,500

UNIVERSITY OF TULSA

SCHOENEFELD, DALE A; *FINITE MATHEMATICS/SURVEY CALCULUS LABORATORY INTEGRATION (SER-8000964)*; 30 MONTHS $24,916

KUENHOLD, KENNETH A; *INTRODUCTORY PHYSICS LABORATORY EQUIPMENT (SER-8015193)*; 30 MONTHS $8,700

THOMPSON, RICHARD E; *CONVENTIONAL AND COMPUTER CONTROL OF CHEMICAL PROCESSES (SER-8015927)*; 30 MONTHS $4,450

OREGON

COLUMBIA EDUCATION CENTER

NELSEN, RALPH T; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008174)*; 12 MONTHS $28,500

NELSEN, RALPH T; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008197)*; 15 MONTHS $20,000

COOPERATIVE MUSEUM COMMISSION

SUGGS, WILLIAM W; *STUDENT SCIENCE TRAINING (SPI-7925158)*; 20 MONTHS $9,980

INDIVIDUAL AWARD

ADLER, ELLIS; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013295)*; 42 MONTHS $26,707

LEWIS AND CLARK COLLEGE

MAIER, EUGENE A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000378)*; 18 MONTHS $49,836

MATH LEARNING CENTER

MAIER, EUGENE A; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION: (MATHEMATICS EDUCATION AMONG NATIVE AMERICANS: A SERIES OF INFORMATIONAL CONFERENCES) (SER-8012289)*; 16 MONTHS $49,986

OREGON COLLEGE OF EDUCATION

REDBIRD, HELEN M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001206)*; 18 MONTHS $39,301

WRIGHT, EDWARD B; *CAUSE: INFUSION OF COMPUTER SCIENCE INTO LIBERAL ARTS & TEACHER EDUCATION CURRICULUM (SER-8004943)*; 36 MONTHS $249,943

OREGON GRADUATE CENTER

EROR, NICHOLAS G; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8006026)*; 16 MONTHS $41,471

OREGON MUSEUM OF SCIENCE AND INDUSTRY

BRECKON, GARRY; *COMPUTER AWARENESS PROJECT (OSS-7817907 A01)*; 12 MONTHS $118,936

HANSEN, BRUCE P; *STUDENT SCIENCE TRAINING (SPI-7925541)*; 10 MONTHS $22,210

HANSEN, BRUCE P; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8015603)*; 16 MONTHS $20,000

OREGON STATE UNIVERSITY

WILSON, HOWARD L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001095)*; 10 MONTHS $34,612

DAVIS, JOEL; *CALCULATOR-ASSISTED CALCULUS AND NUMERICAL ANALYSIS (SER-8014390)*; 30 MONTHS $3,385

PORTLAND STATE UNIVERSITY

MAIER, EUGENE A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-7925826)*; 18 MONTHS $49,988

POLYA, LANCE; *MATERIALS TO TEACH SYSTEMS THINKING TO NON-TECHNICAL COLLEGE STUDENTS (SER-8001078)*; 30 MONTHS $15,854

NELSEN, RALPH T; *PHYSICALLY HANDICAPPED IN SCIENCE (SPI-8005417)*; 12 MONTHS $46,169

FIASCA, MICHAEL A; *PRE-COLLEGE SCIENCE EDUCATION MATERIALS ON MT. ST. HELENS 1980 ERUPTION (SED-8020737)*; 6 MONTHS $17,637

REED COLLEGE

DUNNE, THOMAS G; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926870)*; 12 MONTHS $11,318

WIENER, ERIK; *STUDENT-ORIGINATED STUDIES (SPI-8003994)*; 12 MONTHS $14,330

SOUTHERN OREGON STATE COLLEGE

WELTON, RICHARD E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000362)*; 18 MONTHS $12,800

UNIVERSITY OF PORTLAND

WETZEL, KARL J; *IMPROVEMENT OF INSTRUCTION IN EXPERIMENTAL NUCLEAR SCIENCE (SER-8015229)*; 30 MONTHS $10,684

PENNSYLVANIA

ALBRIGHT COLLEGE

HELLER, MORGAN S; *DEVELOPMENT OF A LABORATORY PROGRAM IN BIOCHEMISTRY (SER-8013192)*; 30 MONTHS $12,881

REAVER COLLEGE

CAMERON, SAMUEL M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000650)*; 18 MONTHS $21,153

MAUSNER, BERNARD; *DEVELOPMENT OF COMPUTER-ASSISTED INSTRUCTION IN A PSI COURSE IN STATISTICS (SER-8000609)*; 30 MONTHS $24,018

BRYN MAWR COLLEGE

KRONICK, JANE C; *THE PLACEMENT OF RESPONSIBILITY FOR ACCIDENTS: A CASE STUDY OF THE THREE MILE ISLAND INCIDENT (OSS-7915683)*; 12 MONTHS $8,472

BENNETT, SHEILA K; *INSTRUCTIONAL INTERACTIVE COMPUTING FOR SOCIOLOGICAL STUDY (SER-8014431)*; 30 MONTHS $10,900

BUCKNELL UNIVERSITY

SMITH, MANNING A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926961)*; 12 MONTHS $19,881

CALIFORNIA STATE COLLEGE

HUNTER, BARRY B; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000752)*; 18 MONTHS $21,018

CARNEGIE-MELLON UNIVERSITY

TARR, JOEL A; *VALUES AND VALUE CHANGES IN THE FORMULATION OF THE PITTSBURGH AIR POLLUTION CONTROL STATUTES (OSS-7817308 A02)*; $4,798

PENNA, ANTHONY N; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001088)*; 18 MONTHS $40,943

LARKIN, JILL H; *MATHEMATICAL REPRESENTATIONS OF REAL-WORLD KNOWLEDGE: PHYSICS AND ARITHMETIC WORD-PROBLEMS (SED-8018264)*; 24 MONTHS $344,401

CHEYNEY STATE COLLEGE

WILLIAMS, JESSE; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000335)*; 18 MONTHS $31,578

CLARION STATE COLLEGE

MECHLING, KENNETH R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000323)*; 18 MONTHS $28,232

DREXEL UNIVERSITY

STAIB, JOHN H; *COMPUTER GRAPHICS IN A HIGH SCHOOL MATHEMATICS LABORATORY (SED-8012532)*; 20 MONTHS $123,000

GERBER, EDWIN L; *AUTOMATIC MEASURING TECHNIQUES IN THE INSTRUMENTATION LAB (SER-8014387)*; 30 MONTHS $20,000

EAST STROUDSBURG STATE COLLEGE

HOULE, PAUL N; *DEVELOPMENT OF P.S.I. JUNIOR AND SENIOR LEVEL PHYSICS COURSES (SER-8000836)*; 30 MONTHS $18,787

EDINBORO STATE COLLEGE

DEFIGIO, DANIEL A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000160)*; 18 MONTHS $18,011

SCHNEIDER, MICHAEL C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000744)*; 18 MONTHS $33,654

FRANKLIN INSTITUTE

BORUN, MINDA; *A MODEL COMPUTER-BASED INTERPRETIVE SYSTEM FOR SCIENCE MUSEUMS (SED-7919003)*; 18 MONTHS $135,114

GETTYSBURG COLLEGE

ROWLAND, ALEX T; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926823)*; 12 MONTHS $12,000

HAVERFORD COLLEGE

GAVIN, ROBERT; *CAUSE: INTRODUCING COMPUTER INSTRUCTIONAL TECH. INTO THE COLLEGE SCIENCE PROGRAM (SEP-8004973)*; 36 MONTHS $250,000

INDIVIDUAL AWARD

SPODEK, HOWARD; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013101)*; 43 MONTHS $29,052

SCHULYER, MICHAEL W; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013266)*; 42 MONTHS $25,828

RAINARD, BARBARA J; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013273)*; 42 MONTHS $21,360

BOROCK, D M; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013283)*; 42 MONTHS $17,657

SMITH, EDWARD A; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8014197)*; 42 MONTHS $24,470

VOGEL, MORRIS J; *INTERDISCIPLINARY INCENTIVE AWARD (OSS-8018059)*; 40 MONTHS $22,000

KEYSTONE JUNIOR COLLEGE

PADALINO, JOHN J; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009109)*; 18 MONTHS $27,603

KING'S COLLEGE

SAULS, FREDERICK; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000585)*; 18 MONTHS $20,209

LA SALLE COLLEGE

LONGO, STEPHEN A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000238)*; 18 MONTHS $11,769

LONGO, STEPHEN A; *COMPUTER AIDED SCIENCE LABORATORIES (SER-8000971)*; 30 MONTHS $22,930

HOERSCH, ALICE L; *A MICROSCOPY CLOSED-CIRCUIT TELEVISION SYSTEM FOR GEOLOGY INSTRUCTION (SER-8015045)*; 30 MONTHS $7,900

LAFAYETTE COLLEGE

NEWLAND, ROBERT J; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7916580)*; 12 MONTHS $12,000

LEBANON VALLEY COLLEGE

FLEISCHMAN, WILLIAM M; *STUDENT SCIENCE TRAINING (SPI-7915967)*; 10 MONTHS $10,000

LEHIGH UNIVERSITY

WILANSKY, ALBERT; *STUDENT SCIENCE TRAINING (SPI-7915469)*; 10 MONTHS $9,356

KRAWIEC, STEVEN S; *MOLECULAR ASPECTS OF MICROBIAL ECOLOGY (SER-8000839)*; 30 MONTHS $22,900

GOLDMAN, STEVEN; *CAUSE: SCIENCE AND ENGINEERING TECHNOLOGY CURRICULUM FOR THE IMPROVEMENT OF A LIBERAL EDUCATION (SER-8005199)*; 36 MONTHS $241,510

LINCOLN UNIVERSITY

BROOMALL, JAMES; *CAUSE: AN INTERACTIVE COMPUTER APPROACH TO TEACHING PROBLEM-SOLVING (SER-8005304)*; 36 MONTHS $250,000

MANSFIELD STATE COLLEGE

GEORGE, ARNOLD; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000703)*; 18 MONTHS $15,318

MEDICAL COLLEGE OF PENNSYLVANIA

ELFVIN, MYRA J; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008558)*; 24 MONTHS $20,000

MORAVIAN COLLEGE

MILLER, SHARI L; *STUDENT ORIGINATED STUDIES (SPI-8006496)*; 12 MONTHS $13,647

PENNSYLVANIA STATE UNIVERSITY-BEHREND COLLEGE

JONCZAK, LAWRENCE J; *STUDENT ORIGINATED STUDIES (SPI-8004756)*; 12 MONTHS $15,255

PENNSYLVANIA STATE UNIVERSITY

ROY, RUSTUM; *EDUCATIONAL MODULES FOR MATERIALS SCIENCE & ENGINEERING (SED-7714149 A02)*; 18 MONTHS $197,395

ROY, RUSTUM; *EDUCATIONAL MODULES FOR MATERIALS SCIENCE AND ENGINEERING (SED-7714149 A03)*; $49,409

HULINA, PAUL T; *A MICROCOMPUTER BASED LABORATORY MEASUREMENT SYSTEM FOR UNDERGRADUATE ELECTRICAL ENGINEERING LABORATORIES (SED-7918895)*; 21 MONTHS $77,600

KENNEY, EDWARD S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7918595)*; 12 MONTHS $16,661

PYTEL, ANDREW; *A VIDEOTAPE STUDENT-STUDY GUIDE APPROACH TO THE TEACHING OF THE FIRST COURSE IN ENGINEERING MECHANICS (SER-8000788)*; 30 MONTHS $21,394

JESTER, WILLIAM A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001241)*; 18 MONTHS $29,481

SHULL, H E; *CAUSE: DEVELOPMENT OF UPPER LEVEL PROGRAMS INVOLVING ENERGY, THE ENVIRONMENT, AND THEIR INTERFACE (SER-8005909)*; 36 MONTHS $250,000

SUMMERS, LUIS H; *INSTRUMENTATION FOR TESTING REINFORCED AND PRESTRESSED CONCRETE MODELS (SER-8011212)*; 30 MONTHS $9,600

FARR, JAMES L; *FACTORS THAT INFLUENCE THE TECHNICAL UPDATING OF ENGINEERS (SED-8019680)*; 24 MONTHS $154,371

PHILADELPHIA COLLEGE OF TEXTILES AND SCIENCE

GRADEL, GEORGE J; *STUDENT SCIENCE TRAINING (SPI-7905273)*; 10 MONTHS $9,680

KAPLAN, MOREY; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000192)*; 18 MONTHS $9,411

GRADEL, GEORGE J; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014823)*; 16 MONTHS $20,000

PHILADELPHIA REG INTRO FOR MINORITIES IN ENGRG

FERGUSSON, WILLIAM B; *STUDENT SCIENCE TRAINING (SPI-7915214)*; 10 MONTHS $27,080

MCLAUGHLIN, W B; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014821)*; 16 MONTHS $20,000

SETON HILL COLLEGE

WALKER, RUSSELL C; *CAUSE: COMPUTING PROGRAM FOR ADVANCEMENT OF SCIENCE EDUCATION AND COMPUTER LITERACY (SER-8004455)*; 36 MONTHS $114,435

FONDY, B R; *IMPROVEMENT OF BIOLOGY AND BIOCHEMISTRY PROGRAM BY ADDITION OF EXPERIENCE WITH RADIOISOTOPES (SER-8013550)*; 30 MONTHS $7,250

SHIPPENSBURG STATE COLLEGE

GREZLAK, JOHN H; *POLYMER SCIENCE LABORATORY IMPROVEMENT (SER-8015238)*; 30 MONTHS $9,176

SLIPPERY ROCK STATE COLLEGE

TAYLOR, RHODA E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000419)*; 18 MONTHS $21,978

ST JOSEPH'S UNIVERSITY

WATROUS, JAMES; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926889)*; 12 MONTHS $8,000

OLDHAM, JACK; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000391)*; 18 MONTHS $29,927

SWARTHMORE COLLEGE

BOCCIO, JOHN R, *UNDERGRADUATE RESEARCH PARTICIPATION* (SPI-7905945): 12 MONTHS $11,970

WONG, STEPHEN, *STUDENT ORIGINATED STUDIES* (SPI-8006091): 12 MONTHS $9,564

THOMPSON, PETER T, *IMPROVEMENT IN INSTRUMENTAL ANALYSIS INSTRUCTION* (SER-8014773): 30 MONTHS $9,119

TEMPLE UNIVERSITY

CYBRIWSKY, ROMAN A, *STUDENT SCIENCE TRAINING* (SPI-7905131): 10 MONTHS $24,220

SUTMAN, FRANK X, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000197): 10 MONTHS $39,040

SUTMAN, FRANK X, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000943): 18 MONTHS $48,893

MULDAWER, LEONARD, *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES* (SPI-8005458): 16 MONTHS $47,976

CYBRIWSKY, ROMAN A, *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS* (SPI-8014588): 16 MONTHS $30,000

UNIVERSITY OF PENNSYLVANIA

BAUER, NANCY W, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000746): 18 MONTHS $50,000

NONE, NONE N, *SUPPORT FOR NSF GRADUATE FELLOWS* (SPI-8019168*): 60 MONTHS $15,440

UNIVERSITY OF PITTSBURGH

HARTMAN, RICHARD T, *UNDERGRADUATE RESEARCH PARTICIPATION* (SPI-7905958): 12 MONTHS $11,884

BELL, FREDERICK H, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000168): 18 MONTHS $32,396

NOUS, ALBERT P, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000586): 18 MONTHS $34,833

HOELZEMAN, RONALD G, *CAUSE: AN INTERACTIVE COMPUTER GRAPHICS LABORATORY* (SER-8005031): 36 MONTHS $243,704

RESNICK, LAUREN B, *SEMANTICS OF ARITHMETIC: TEACHING UNDERSTANDING AND COMPUTATIONAL SKILL VIA COMPUTER* (SED-8012511*): 18 MONTHS $152,256

HOELZEMAN, RONALD G, *COMPUTER GRAPHICS CLASSROOM* (SER-8011181): 30 MONTHS $19,985

UNIVERSITY OF SCRANTON

MEINKE, JOHN G, *UNDERGRADUATE RESEARCH PARTICIPATION* (SPI-7905662): 12 MONTHS $17,896

BEIDLER, JOHN A, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000389): 18 MONTHS $29,601

VILLANOVA UNIVERSITY

MCASSEY, EDWARD V, *CAUSE: DEVELOPMENT OF COMPREHENSIVE INTERACTIVE COMPUTER AIDED DESIGN SOFTWARE* (SER-8005405): 36 MONTHS $249,770

WAYNESBURG COLLEGE

PERDEW, PAUL M, *CAUSE: IMPROVEMENT OF LABORATORY INSTRUCTION* (SER-8005291): 24 MONTHS $92,123

YORK COLLEGE OF PENNSYLVANIA

SOLLENBERGER, SUSAN, *STUDENT-ORIGINATED STUDIES* (SPI-8003990): 12 MONTHS $13,714

PUERTO RICO

CATHOLIC UNIVERSITY OF PUERTO RICO

INFANTE, RAFAEL N, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8001114): 18 MONTHS $20,246

CAYEY UNIVERSITY COLLEGE

SANCHEZ, ADOLFO, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8001237): 18 MONTHS $15,402

COMMITTEE OF WORKERS FOR PROTECTION CONSUMERS

LUGARDO, LUIS M, *COMMUNICATING SCIENTIFIC PRINCIPLES OF NUTRITION IN RURAL PUERTO RICO* (OIS-7907162 A01): 6 MONTHS $7,970

INTER AMERICAN UNIV OF PR-SAN GERMAN CAMPUS

CAPRILES, VICTOR A, *STUDENT SCIENCE TRAINING* (SPI-7905479): 10 MONTHS $18,380

COLLAZO, JORGE B, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000541): 18 MONTHS $20,623

CAPRILES, VICTOR A, *INSTRUCTIONAL IMPROVEMENT IN THE BIOLOGY LABORATORY PROGRAM* (SER-8014460): 30 MONTHS $9,237

CAPRILES, VICTOR A, *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS* (SPI-8014580): 16 MONTHS $30,000

UNIV OF PUERTO RICO MEDICAL SCIENCES CAMPUS

NONE, NONE N, *SUPPORT FOR NSF GRADUATE FELLOWS* (SPI-8019102): 60 MONTHS $15,440

UNIVERSITY OF PUERTO RICO, MAYAGUEZ

BENITEZ, FERNANDO L, *UNDERGRADUATE RESEARCH PARTICIPATION* (SPI-7907183): 12 MONTHS $17,939

ORTIZ, ALIDA, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8001307): 10 MONTHS $21,519

RIVERO, ENEIDA, *MINORITY INSTITUTION GRADUATE TRAINEESHIPS* (SPI-8010782): 42 MONTHS $111,300

HERNANDEZ-AVILA, MANUEL, *MINORITY INSTITUTION GRADUATE TRAINEESHIPS* (SPI-8010749): 42 MONTHS $99,040

ACOSTA, URSULA, *IMPROVEMENT OF BASIC PSYCHOLOGY LABORATORY* (SER-8015015): 30 MONTHS $3,630

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS

BAEZ, LUIS A, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000179): 18 MONTHS $22,391

SELBST, RONALD G, *CAUSE: APPLICATION OF COMPUTER TECHNOLOGY IN THE SCIENCES* (SER-8005139): 36 MONTHS $330,775

RODRIGUEZ, MANUEL G, *RESOURCE CENTER FOR SCIENCE AND ENGINEERING* (SER-8005447): 48 MONTHS $2,797,200

BORRY, CARMEN, *MINORITY INSTITUTION GRADUATE TRAINEESHIPS* (SPI-8010730): 42 MONTHS $44,520

NONE, NONE N, *SUPPORT FOR NSF GRADUATE FELLOWS* (SPI-8019101): 60 MONTHS $15,440

UNIVERSITY OF THE SACRED HEART

BATIZ, HERIBERTO, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000756): 18 MONTHS $30,765

RHODE ISLAND

BROWN UNIVERSITY

SEDGEWICK, ROBERT, *CAUSE: INTEGRATED PERSONALIZED COMPUTING ENVIRONMENT* (SER-8006374): 36 MONTHS $230,000

NONE, NONE N, *SUPPORT FOR NSF GRADUATE FELLOWS* (SPI-8019100*): 60 MONTHS $7,720

INDIVIDUAL AWARD

DALY, JAMES C, *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM* (SPI-8013277): 42 MONTHS $21,000

BUCHDAHL, DAVID A, *PUBLIC SERVICE SCIENCE RESIDENCY* (OIS-8016581): 30 MONTHS $24,795

UNIVERSITY OF RHODE ISLAND

CROASDALE, WILLIAM, *STUDENT SCIENCE TRAINING* (SPI-7905488): 10 MONTHS $22,970

SADASIV, ANGARAIHG, *UNDERGRADUATE RESEARCH PARTICIPATION* (SPI-7905844): 12 MONTHS $19,031

KIRWAN, DONALD F, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000150): 18 MONTHS $19,225

KIRWAN, DONALD F, *DESIGN OF ENERGY EDUCATION COURSES* (SER-8000784): 30 MONTHS $22,102

SOUTH CAROLINA

CLEMSON UNIVERSITY

VON ROSENBERG, JOSEPH L, *UNDERGRADUATE RESEARCH PARTICIPATION* (SPI-7906951): 12 MONTHS $19,004

TURNER, A J, *COMPUTER SCIENCE MICROPROGRAMMING LABORATORY* (SER-8014474): 30 MONTHS $13,215

COLLEGE OF CHARLESTON

HAYNSWORTH, W HUGH, *STUDENT SCIENCE TRAINING* (SPI-7905650): 10 MONTHS $17,710

CHALCRAFT, RICHARD G, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000407): 18 MONTHS $13,294

HAYNSWORTH, W HUGH, *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS* (SPI-8014594): 16 MONTHS $29,000

CONVERSE COLLEGE

HIGHSMITH, PHILLIP E, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000107): 10 MONTHS $12,922

ERSKINE COLLEGE AND SEMINARY

JUNKIN, WILLIAM F, *STUDENT SCIENCE TRAINING* (SPI-7905170): 10 MONTHS $16,580

FOLLY BEACH, CITY OF

MANZI, JOHN J, *FOLLY ISLAND EROSION ABATEMENT WORKSHOP* (OIS-7917914 A01): 3 MONTHS $5,300

FRANCIS MARION COLLEGE

ROOP, TOM, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8001295): 10 MONTHS $6,163

FURMAN UNIVERSITY

NOCKS, ELAINE C, *UNDERGRADUATE RESEARCH PARTICIPATION* (SPI-7906973): 12 MONTHS $9,544

TRZUPEK, L S, *LABORATORY COURSE IN BIOCHEMICAL TECHNIQUES* (SER-8000872): 30 MONTHS $10,452

SARGENT, KENNETH A, *USE OF COMPUTERS IN UNDERGRADUATE GEOLOGY INSTRUCTION* (SER-8013057): 30 MONTHS $14,074

THE CITADEL

MCINTYRE, JAMES H, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000612): 10 MONTHS $18,162

UNIV OF SOUTH CAROLINA AT COASTAL CAROLINA

LOHR, COLLEEN A, *CAUSE: DEVELOPING INSTRUMENT BASED LAB SKILLS IN A BY-LEVEL MULTIDISCIPLINARY CURRICULUM* (SER-8006792): 36 MONTHS $127,601

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

ANTION, DANIEL J, *PRE-COLLEGE TEACHER DEVELOPMENT* (SPI-8000214): 10 MONTHS $24,202

LOGOMARSINO, JOHN V, *BIOLOGY AUDIOTUTORIAL MINICOURSES IN A CHILD DEVELOPMENT CURRICULUM* (SER-8000977): 30 MONTHS $24,959

SAFKO, JOHN L; *IMPROVEMENT OF OBSERVATIONAL ASTRONOMY INSTRUCTION (SER-8013572)*; 30 MONTHS $20,000

UNIVERSITY OF SOUTH CAROLINA AT SPARTANBURG

WHITE, EDWIN P; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009086)*; 15 MONTHS $12,090

UNIVERSITY OF SOUTH CAROLINA CENTRAL OFFICE

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019093)*; 60 MONTHS $7,720

WINTHROP COLLEGE

DICKERSON, DENNIS; *STUDENT-ORIGINATED STUDIES (SPI-8004004)*; 12 MONTHS $19,120

SOUTH DAKOTA

AUGUSTANA COLLEGE

JOHNSON, LELAND G; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926627)*; 12 MONTHS $9,948

BLANKESPOOR, GILBERT W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000177)*; 18 MONTHS $13,732

DORBAND, WAYNE R; *AQUATIC BIOLOGY PROGRAM DEVELOPMENT IN A LIBERAL ARTS CONTEXT (SER-8000890)*; 30 MONTHS $15,982

INDIVIDUAL AWARD

PRESCOTT, LANSING M; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013111)*; 42 MONTHS $4,835

SILL, WEBSTER H; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016378)*; 30 MONTHS $23,000

MOUNT MARTY COLLEGE

DIGGINS, MAUREEN; *STUDENT SCIENCE TRAINING (SPI-7925498)*; 10 MONTHS $7,440

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

FITZGERALD, JOHN J; *AN UNDERGRADUATE COURSE IN TOXICOLOGY FOR SCIENTISTS AND ENGINEERS (SER-8000807)*; 30 MONTHS $23,594

SOUTH DAKOTA STATE UNIVERSITY

GEHRKE JR, HENRY J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000172)*; 18 MONTHS $19,114

UNIVERSITY OF SOUTH DAKOTA MAIN CAMPUS

METZNER, STEPHEN R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000223)*; 18 MONTHS $44,355

MCCABE, MILO F; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000605)*; 18 MONTHS $28,170

SCHUTTE, WILLIAM C; *CHEMISTRY FOR ELEMENTARY TEACHERS (SER-8000857)*; 30 MONTHS $22,199

SOGAARD, GREGORY A; *STUDENT-ORIGINATED STUDIES (SPI-8004092)*; 12 MONTHS $15,363

LA RUE, RICHARD; *IPA MOBILITY ASSIGNMENT (RICHARD LARUE) (SED-8037240)*; 25 MONTHS $89,110

LA RUE, RICHARD; *IPA MOBILITY ASSIGNMENT (RICHARD LA RUE) (SED-8007240 A01)*; 6 MONTHS $1,698

OTTO, PAUL B; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008905)*; 12 MONTHS $27,996

TENNESSEE

CHRISTIAN BROTHERS COLLEGE

POPE, DIANNE C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000399)*; 18 MONTHS $20,817

DOODY, JOHN E; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005668)*; 16 MONTHS $41,768

BAUMEYER, JOEL; *USING A VISUAL TECHNIQUE TO TEACH HIGH SCHOOL STUDENTS THE CONCEPT OF VARIABLES IN POLYNOMIALS (SED-8012518)*; 24 MONTHS $34,106

EAST TENNESSEE STATE UNIVERSITY

PAFFORD, WILLIAM N; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008175)*; 18 MONTHS $16,843

IGLAR, ALBERT F; *GAS CHROMATOGRAPHY AND ATOMIC ABSORPTION EQUIPMENT FOR ENHANCEMENT OF UNDERGRADUATE INSTRUCTION IN ENVIRONMENTAL HEALTH (SER-8014440)*; 30 MONTHS $13,660

FISK UNIVERSITY

ELLIOTT, I W; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010734)*; 42 MONTHS $44,520

INDIVIDUAL AWARD

HETZLER, MORRIS C; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013279)*; 42 MONTHS $28,800

PEARSON, DONALD E; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016372)*; 30 MONTHS $16,500

MEMPHIS STATE UNIVERSITY

GIANNANGELO, DUANE M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000626)*; 18 MONTHS $42,518

GREEN, JILL A; *STUDENT-ORIGINATED STUDIES (SPI-8005193)*; 12 MONTHS $17,256

MILLER, NEIL A; *FIELD TECHNIQUES IN ECOLOGY (SER-8012749)*; 30 MONTHS $3,800

CARTER, JAMES C; *ANALYTICAL INSTRUMENTATION FOR UNDERGRADUATE LABORATORY INSTRUCTION IN CHEMISTRY (SER-8013212)*; 30 MONTHS $14,396

TENNESSEE TECHNOLOGICAL UNIVERSITY

SEITER, JOSEPH C; *STUDENT SCIENCE TRAINING (SPI-7925150)*; 10 MONTHS $19,780

VENTRICE, CARL; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926893)*; 12 MONTHS $20,000

BALLAL, S K; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001201)*; 18 MONTHS $23,977

BONNER, W PAUL; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001215)*; 18 MONTHS $22,989

SCARDINA, JOSEPH T; *COMPUTER GRAPHICS AS AN INSTRUCTIONAL AID IN ENGINEERING MECHANICS AND MATERIALS SCIENCE COURSES (SER-8001419)*; 30 MONTHS $24,997

FAULKERSON, JOE C; *STUDENT-ORIGINATED STUDIES (SPI-8004099)*; 12 MONTHS $18,925

SCARDINA, JOSEPH T; *COMPUTER GRAPHICS AS AN INSTRUCTION AID IN UNDERGRADUATE ENGINEERING COURSES (SER-8012764)*; 30 MONTHS $19,050

UNIVERSITY OF TENNESSEE AT CHATTANOOGA

TAYLOR, CARYL A; *STUDENT SCIENCE TRAINING (SPI-7925529)*; 10 MONTHS $7,440

LYNCH, JOHN A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926883)*; 12 MONTHS $7,962

LANE, ERIC T; *MICROCOMPUTER APPLICATIONS AND INTERFACING COURSE (SER-8000883)*; 30 MONTHS $25,000

SMULLEN, CLINTON W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001267)*; 18 MONTHS $11,932

UNIVERSITY OF TENNESSEE AT KNOXVILLE

BULL, WILLIAM E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926621)*; 12 MONTHS $18,113

MCSWEEN, HARRY Y; *INSTRUCTION IN OPTICAL MICROSCOPY BY PROGRAMMED TEXT (SER-8000842)*; 30 MONTHS $13,682

STOLOFF, JUDITH; *IPA MOBILITY ASSIGNMENT (OSS-8016049)*; 15 MONTHS $41,662

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019183*)*; 48 MONTHS $7,720

UNIVERSITY OF TENNESSEE AT MARTIN

BLYTHE, ERNEST W; *STUDENT SCIENCE TRAINING (SPI-7925164)*; 10 MONTHS $15,820

MCCUTCHEN, WILLIAM T; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000730)*; 18 MONTHS $17,320

STERLING, CHARLES E; *MICROWAVE LABORATORY IMPROVEMENT PROJECT (SER-8014377)*; 30 MONTHS $6,660

VANDERBILT UNIVERSITY

FUSON, NELSON; *CAUSE: REALISTIC APPROACH TO MOTIVATION FOR PHYSICS (RAMP) PLAN (SER-8004977)*; 36 MONTHS $250,000

TEXAS

ABILENE CHRISTIAN UNIVERSITY

POUCHER, WILLIAM B; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000571)*; 18 MONTHS $31,891

AMARILLO COLLEGE

ALLEY, PEGGY; *CAUSE: INTEGRATION OF COMPUTER ASSISTED AND COMPUTER MANAGED INSTRUCTION IN PHYSICAL SCIENCES (SER-8005297)*; 24 MONTHS $102,611

DALLAS URBAN LEAGUE INC

WALKER, SHIRLEY; *WORKSHOPS ON THE URBAN ENVIRONMENT FOR MINORITY CITIZENS OF DALLAS (OSS-8016351)*; 12 MONTHS $61,418

HARDIN-SIMMONS UNIVERSITY

ROBINSON, CHARLES D; *STUDENT SCIENCE TRAINING (SPI-7925911)*; 10 MONTHS $14,340

HUSTON-TILLOTSON COLLEGE

SPENCER, ALVIN; *STUDENT-ORIGINATED STUDIES (SPI-8004083)*; 12 MONTHS $10,073

INCARNATE WORD COLLEGE

FRESQUEZ, CATALINA; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8008190)*; 24 MONTHS $19,651

INDIVIDUAL AWARD

GREEN, EULINE I; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013098)*; 42 MONTHS $24,182

DOE, FRANK J; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013286)*; 42 MONTHS $26,870

BARTHOLOMEW, ROLLAND B; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016360)*; 30 MONTHS $30,824

RUBIN, ROSE M; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016375)*; 30 MONTHS $24,267

NAVARRO COLLEGE

RUSHING, IRVING W; *COMPREHENSIVE ASSISTANCE TO UNDERGRADUATE SCIENCE EDUCATION PROGRAM (SER-7615828 A02)*; 6 MONTHS $10,424

OUR LADY OF THE LAKE UNIVERSITY OF SAN ANTONIO
SWIECZKOWSKI, JULIET; *STATISTICS COURSE IMPROVEMENT PROJECT (SER-8001000)*; 30 MONTH $13,902

PAN AMERICAN UNIVERSITY
SANDERS, DELORES R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001099)*; 18 MONTHS $26,446
SCHAEFER, M GERALDA; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001280)*; 18 MONTHS $11,539

PRAIRIE VIEW AGRICULTURE AND MECHANICAL UNIV
COLE, LARRY L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926982)*; 12 MONTHS $19,617

RICE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019173*)*; 60 MONTHS $30,880

SAM HOUSTON STATE UNIVERSITY
LOEFFLER, PAUL A; *STUDENT SCIENCE TRAINING (SPI-7925502)*; 10 MONTHS $18,010
WILLIAMS, C A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000123)*; 18 MONTHS $28,196
WILSON, JACK M; *CAUSE: IMPROVED LAB FACILITIES & INTEGRATING SIMULATION IN INTERDISCIPLINARY LAB EXPERIENCES (SER-8004933)*; 24 MONTHS $173,068

SOUTHERN METHODIST UNIVERSITY
BRITTON, WAYNE E; *INCORPORATION OF MICROCOMPUTERS INTO INSTRUMENTAL CHEMISTRY COURSES (SER-8014603)*; 30 MONTHS $6,696

SOUTHWEST TEXAS STATE UNIVERSITY
DURRETT, H J; *LABORATORY COURSE IMPROVEMENT IN PSYCHOLOGY (SER-8000893)*; 30 MONTHS $22,500
WELCH, ROY D; *STUDENT-ORIGINATED STUDIES (SPI-8003982)*; 12 MONTHS $11,456
MC CASKILL, EDWIN O; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009114)*; 24 MONTHS $29,007

ST EDWARD'S UNIVERSITY
LEWIS, J D; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001239)*; 18 MONTHS $17,500

ST MARY'S UNIVERSITY OF SAN ANTONIO
HANSS, ROBERT E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001081)*; 18 MONTHS $49,641

STEPHEN F AUSTIN STATE UNIVERSITY
SIDNELL, JENNIFER A; *STUDENT-ORIGINATED STUDIES (SPI-8004098)*; 12 MONTHS $19,453

SUL ROSS STATE UNIVERSITY
MORGAN, R VIC; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000640)*; 10 MONTHS $27,131

TEXAS A & I UNIVERSITY
GOODE, DWIGHT; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000584)*; 18 MONTHS $18,729

TEXAS A & M UNIVERSITY
SCHROEDER, MELVIN C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000134)*; 18 MONTHS $49,989
AHR, WAYNE M; *A MICROPROJECTOR FOR GEOLOGY LABORATORY INSTRUCTION (SER-8015920)*; 30 MONTHS $6,196
LAANE, JAAN; *UTILIZATION OF A MINI-COMPUTER FOR PHYSICAL CHEMISTRY INSTRUCTION (SER-8015932)*; 30 MONTHS $19,637

TEXAS CHRISTIAN UNIVERSITY
MCNERTNEY, EDWARD M; *AN INTERACTIVE COMPUTER MODEL INTEGRATING MACROECONOMIC AND MICROECONOMIC POLICY ANALYSIS (SER-8000878)*; 30 MONTHS $21,698
STEIN, WILLIAM E; *COMPUTER AIDED STOCHASTIC MODELING IN MATHEMATICS AND PHYSICS (SER-8001443)*; 30 MONTHS $21,584
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019096)*; 48 MONTHS $7,720

TEXAS SOUTHERN UNIVERSITY
BOOKER, EDWARD L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000304)*; 18 MONTHS $25,868
JONES, JOSEPH J; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010741)*; 42 MONTHS $66,780
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019095)*; 36 MONTHS $7,720

TEXAS TECH UNIVERSITY
KRILE, THOMAS F; *FIBER OPTICS EXPERIMENTS FOR UNDERGRADUATE ENGINEERS (SER-8001394)*; 30 MONTHS $21,533
TURIAN, RAFFI M; *DEVELOPMENT OF A MACROMOLECULAR SCIENCE LABORATORY (SER-8013523)*; 30 MONTHS $20,000
BOREN, ANGELA R; *SCIENTIFIC EQUIPMENT FOR THE IMPROVEMENT OF A BASIC NUTRITION COURSE (SER-8013560)*; 30 MONTHS $6,861
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019185*)*; 60 MONTHS $7,720

TEXAS WESLEYAN COLLEGE
KNETEN, NORVAL C; *THEORY AND PRACTICE OF NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY (SER-8013561)*; 30 MONTHS $13,537

TEXAS WOMAN'S UNIVERSITY
JOHNSON, JAMES E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000549)*; 18 MONTHS $24,070
JOHNSON, JAMES E; *CAUSE: DEVELOPMENT OF AN INTERDISCIPLINARY SCIENCE COURSE AND A SCIENCE LEARNING RESOURCE CENTER (SER-8004777)*; 36 MONTHS $249,657

TRINITY UNIVERSITY
LINDQUIST, JOHN H; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000560)*; 18 MONTHS $13,375

UNIV OF HOUSTON SYSTEM ADMIN CENTRAL OFFICE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019134*)*; 60 MONTHS $15,440

UNIV OF TEXAS AT ARLINGTON
MILLS, MAURICE; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926970)*; 12 MONTHS $20,000
REINHARTZ, JUDY; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008761)*; 12 MONTHS $29,559
MACLEAN, GRAEME S; *IMPROVEMENT OF THE HUMAN ANATOMY AND PHYSIOLOGY LABORATORY (SER-8014479)*; 30 MONTHS $8,205
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019097)*; 60 MONTHS $7,720

UNIV OF TEXAS AT AUSTIN
SMITH, HARLAN J; *STAR DATE (OSS-7824651 A01)*; 12 MONTHS $145,715
SMITH, HARLAN J; *STAR DATE: A RADIO PROGRAM ON ASTRONOMY (OSS-7824651 A02)*; $52,546
SPEAR, IRWIN; *STUDENT SCIENCE TRAINING (SPI-7925157)*; 10 MONTHS $37,650
WHITESELL, JAMES K; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926916)*; 12 MONTHS $14,235
BETHEL, LOWELL J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001252)*; 18 MONTHS $39,132
BARUFALDI, JAMES P; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005459)*; 16 MONTHS $49,961
DALE, NELL B; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8008556)*; 36 MONTHS $132,420
GABRIEL, MICHAEL; *LABORATORY APPROACHES IN BIOPSYCHOLOGY (SER-8013928)*; 30 MONTHS $16,594
SPEAR, IRWIN; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8015602)*; 16 MONTHS $20,000
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019186*)*; 60 MONTHS $7,720

UNIV OF TEXAS AT SAN ANTONIO
OUJESKY, HELEN; *STUDENT SCIENCE TRAINING (SPI-7925202)*; 20 MONTHS $29,600
OUJESKY, HELEN; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926969)*; 12 MONTHS $19,776
OUJESKY, HELEN; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014594)*; 16 MONTHS $17,500

UNIV OF TEXAS OF THE PERMIAN BASIN
IRWIN, SCOTT; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8005192)*; 18 MONTHS $39,938

UNIVERSITY OF DALLAS
MARTIN, KATHLEEN; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000228)*; 18 MONTHS $23,380

UNIVERSITY OF HOUSTON CENTRAL CAMPUS
HENLEY, ERNEST J; *CURRICULUM ANALYSIS AND STUDENT INTERROGATION AND INFORMATION SYSTEM (SED-7621950 A02)*; 12 MONTHS $50,000
CRESWELL, JOHN L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000090)*; 18 MONTHS $40,252
KASSCHAU, RICHARD A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000573)*; 18 MONTHS $34,834
JONES, HOWARD L; *USING NON- FORMAL CONTEXTS TO TEACH CHILDREN SCIENCE (SED-8016566)*; 36 MONTHS $293,400

UTAH

CACHE CORPORATION
CARNAHAN, B; *DEVELOPMENT OF A MICROCOMPUTER NETWORK AND COURSEWARE FOR TEACHING CHEMICAL ENGINEERING DESIGN (SED-7919609)*; 24 MONTHS $127,940

DIXIE COLLEGE
COOMBS, ROBERT E; *CAUSE: INDIVIDUALIZATION OF SCIENCE INSTRUCTION (SER-8004902)*; 36 MONTHS $214,835

UNIVERSITY OF UTAH
RAGSDALE, RONALD O; *STUDENT SCIENCE TRAINING (SPI-7925515)*; 20 MONTHS $17,010
STEINER, RICHARD P; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926593)*; 12 MONTHS $19,697
MEROLA, JOHN A; *STUDENT-ORIGINATED STUDIES (SPI-8003978)*; 12 MONTHS $11,153
DAVIS, E A; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8006035)*; 16 MONTHS $43,892

UTAH STATE UNIVERSITY
CANNON, LAWRENCE O; *STUDENT SCIENCE TRAINING (SPI-7925289)*; 10 MONTHS $29,170
CORAY, CHRIS; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000133)*; 10 MONTHS $18,788
FLAMMER, GORDON H; *A MULTI-TRACK FLUID MECHANICS COURSE TO ACCOMMODATE INDIVIDUAL DIFFERENCES IN LEARNERS (SER-8000812)*; 30 MONTHS $24,545

WEBER STATE COLLEGE
LIECHTY, ELDEN E; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000375)*; 18 MONTHS $36,142

WICAT INC
BUNDERSON, C VICTOR; *MENTAL ERRORS IN ARITHMETIC SKILLS: THEIR DIAGNOSIS AND REMEDIATION IN PRE-COLLEGE STUDENTS (SED-8012500*)*; 18 MONTHS $141,544

VERMONT

JOHNSON STATE COLLEGE
MARCHAND, PETER J; *STUDENT SCIENCE TRAINING (SPI-7925555)*; 10 MONTHS $12,650

LYNDON STATE COLLEGE
KENT, SAMUEL S; *CAUSE: LITERACY AND INTERACTIVE COMPUTING FOR SCIENCE STUDENTS (SER-8005032)*; 24 MONTHS $143,648

MIDDLEBURY COLLEGE
HANSON, PERRY O; *SCIENCE AND DISCOVERY IN AN INTRODUCTORY GEOGRAPHY COURSE (SER-8001340)*; 30 MONTHS $24,252

NORWICH UNIVERSITY
WIGHT, GREGORY D; *ULTRAVIOLET PHOTOMETER OZONE CALIBRATION UNIT (SER-8012758)*; 30 MONTHS $3,465
BYRNE, JOSEPH; *PROTON NMR SPECTROMETER IN UNDERGRADUATE CHEMISTRY COURSES (SER-8012759)*; 30 MONTHS $9,365

ST MICHAEL'S COLLEGE
MASSE, ANN; *STUDENT-ORIGINATED STUDIES (SPI-8004390)*; 12 MONTHS $15,443

UNIVERSITY OF VERMONT
BROWN, DAVID B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926563)*; 12 MONTHS $15,998
AUBEY, LISA J; *STUDENT-ORIGINATED STUDIES (SPI-8004395)*; 12 MONTHS $17,043
AUBEY, LISA J; *STUDENT ORIGINATED STUDIES: EXPERIMENTAL ENHANCEMENT OF PRIMATE BEHAVIOR THROUGH ENVIRONMENTAL MANIPULATIONS IN A ZOO (SPI-8004395 A01)*; $1,500
AGNE, RUSSELL M; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009076)*; 15 MONTHS $26,702
DANILOFF, RAYMOND G; *AN UNDERGRADUATE SPEECH AND HEARING LABORATORY (SER-8013860)*; 30 MONTHS $16,264

VIRGINIA

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES
BRIGGS, WINSLOW R; *COLLEGE FACULTY CONFERENCE (SPI-8009498)*; 18 MONTHS $39,838

COLLEGE OF WILLIAM AND MARY
GIESE, RONALD N; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001102)*; 18 MONTHS $21,484

COLLEGE OF WILLIAM AND MARY-RICHARD BLAND COLLEGE
BURRELL, BENJAMIN; *STUDENT SCIENCE TRAINING (SPI-7925848)*; 10 MONTHS $10,890

FERRUM COLLEGE
LEFFLER, JOHN W; *ACQUISITION OF SMALL CRAFT TO IMPROVE FIELD INSTRUCTION IN AQUATIC SCIENCE AT FERRUM COLLEGE (SER-8014638)*; 30 MONTHS $2,903

GEORGE MASON UNIVERSITY
COX, CARLETON W; *IMPROVEMENT OF UNDERGRADUATE PROGRAM IN CARTOGRAPHY (SER-8015214)*; 30 MONTHS $17,570

HAMPTON INSTITUTE
GARRISON, HAZEL J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000319)*; 18 MONTHS $28,556

HUMAN RESOURCES RESEARCH ORGANIZATION
HUNTER, BEVERLY; *COMPUTER LITERACY GUIDES FOR ELEMENTARY AND JUNIOR HIGH SCHOOLS (SED-7923684)*; 36 MONTHS $216,755
HUNTER, BEVERLY; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009092)*; 15 MONTHS $28,493

JAMES MADISON UNIVERSITY
MATHIE, VIRGINIA A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000738)*; 18 MONTHS $14,897
BENEDICT, JAMES O; *STUDENT-DESIGNED RESEARCH PROJECTS IN EXPERIMENTAL PSYCHOLOGY (SER-8000997)*; 30 MONTHS $9,276
ROBERTS, W P; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001236)*; 18 MONTHS $19,135
DEVORE, T C; *VIBRATIONAL INFRARED SPECTROSCOPY OF HIGH TEMPERATURE MOLECULES (CHE-8012913*)*; 9 MONTHS $18,000

KAPPA SYSTEMS INC
YOCUM, JAMES; *DATA PROCESSING SERVICES TO SUPPORT PROPOSAL PROCESSING ACTIVITIES OF THE SCIENCE EDUCATION DIRECTORATE (SER-7819643 A01*)*; 12 MONTHS $29,022
YOCUM, JAMES; *DATA PROCESSING SERVICES TO SUPPORT PROPOSAL PROCESSING ACTIVITIES OF THE SCIENCE EDUCATION DIRECTORATE (SED-7819643 A02)*; $1,175

LYNCHBURG COLLEGE
SIGLER, JULIUS; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000726)*; 18 MONTHS $24,412

MARINE SCIENCE CONSORTIUM
KELLER, EDWARD C; *STUDENT SCIENCE TRAINING (SPI-7827718 A01)*; 6 MONTHS $7,219
KELLER, EDWARD C; *STUDENT SCIENCE TRAINING (SPI-7925293*)*; 10 MONTHS $45,273

MARY WASHINGTON COLLEGE
SOUTHWORTH, JOANNE G; *TEACHING IMMUNOLOGY AND ENDOCRINOLOGY TECHNIQUES (SER-8012742)*; 30 MONTHS $5,302

OLD DOMINION UNIVERSITY
WORTHAM, J W; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000657)*; 18 MONTHS $25,387

RADFORD UNIVERSITY
JONES, FRANKLIN M; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000729)*; 18 MONTHS $19,177

RANDOLPH-MACON COLLEGE
TEMPLE, WADE J; *CAUSE: COMPREHENSIVE CURRICULUM IMPROVEMENT THROUGH COMPUTER UTILIZATION (SER-8005293)*; 36 MONTHS $250,000
WARREN, MICHAEL W; *MICROCOMPUTER FOR COGNITIVE PSYCHOLOGY LABORATORY (SER-8013903)*; 30 MONTHS $2,770

UNIVERSITY OF VIRGINIA
RIOPEL, JAMES L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926957)*; 12 MONTHS $15,500
WEAVER, ALFRED C; *TEACHING COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE PROGRAMMING WITH MICROCOMPUTERS (SER-8000802)*; 30 MONTHS $19,962
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019194*)*; 60 MONTHS $15,440

VIRGINIA COMMONWEALTH UNIVERSITY
'ARLEY, REUBEN W; *STUDENT SCIENCE TRAINING (SPI-7925854)*; 10 ONTHS $13,470
MUSTAFA, HUSAIN; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926631)*; 12 MONTHS $9,703
NELSON, LYNN; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000358)*; 18 MONTHS $16,453
MORRIS, J RICHARD; *GRAPHING IN HIGH SCHOOL LEVEL ALGEBRA AND TRIGONOMETRY FOR ADULTS (SED-8012447)*; 24 MONTHS $36,098
FARLEY, REUBEN W; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014585)*; 16 MONTHS $20,000
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019099)*; 60 MONTHS $7,720

VIRGINIA MILITARY INSTITUTE
LUDT, ROBERT; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926932)*; 12 MONTHS $11,785

VIRGINIA POLYTECHNIC INSTITUTE
VIERS, JIMMY W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926873)*; 12 MONTHS $18,082
ERICKSON, JEFF; *STUDENT-ORIGINATED STUDIES (SPI-8003981)*; 12 MONTHS $17,286

VIRGINIA STATE UNIVERSITY
TOPPIN, EDGAR A; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010747)*; 42 MONTHS $22,260

WASHINGTON

EVERGREEN STATE COLLEGE
FLEISCHMAN, MARY; *STUDENT-ORIGINATED STUDIES (SPI-8003968)*; 12 MONTHS $15,297
CAHALL, ANNA M; *STUDENT-ORIGINATED STUDIES (SPI-8004760)*; 18 MONTHS $11,707

FOUNDATION FOR GLACIER AND ENVIRONMENTAL RES
MILLER, MAYNARD M; *STUDENT SCIENCE TRAINING (SPI-7925291)*; 10 MONTHS $12,050

GONZAGA UNIVERSITY
FIRKINS, JOHN F; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000094)*; 18 MONTHS $8,311
FIRKINS, JOHN F; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000110)*; 18 MONTHS $27,249
STEFFAN, JEFFREY; *STUDENT-ORIGINATED STUDIES (SPI-8004090)*; 12 MONTHS $13,251
FIRKINS, JOHN F; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009107)*; 12 MONTHS $26,945
MCMINN, DENNIS G; *INSTRUMENTATION FOR A MODERNIZED ORGANIC LABORATORY (SER-8013313)*; 30 MONTHS $8,100

ALLWINE, GAIL H; *ESTABLISHMENT OF A MICROCOMPUTER LABORATORY (SER-8013330)*; 30 MONTHS $10,500

INDIVIDUAL AWARD

MARTIN, DAVID C; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013261)*; 42 MONTHS $27,096

RHODES, W G; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013265)*; 42 MONTHS $26,200

METROCENTER YMCA

HUME, JARLATH, AND BOLES, JOHN; *CITIZEN'S CENTER FOR POLICY RESEARCH IN SCIENCE AND TECHNOLOGY (OSS-7923387)*; 12 MONTHS $50,000

NORTHWEST REGIONAL FOUNDATION

STILGER, ROBERT L; *PLANNING A SCIENCE RESOURCE CENTER FOR SPOKANE (OSS-7927218)*; 19 MONTHS $41,733

UNIVERSITY OF WASHINGTON

SINCO, MIRA; *STUDENT SCIENCE TRAINING (SPI-7925497*)*; 10 MONTHS $14,680

ELMER, GARY W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926591)*; 12 MONTHS $14,650

OLSTAD, ROGER G; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000120)*; 18 MONTHS $33,840

WOODMAN, DARRELL J; *AN IMPROVED ADVANCED CHEMISTRY SYNTHESIS LABORATORY (SER-8000989)*; 30 MONTHS $15,092

FRENZEN, PETER M; *STUDENT ORIGINATED STUDIES (SPI-8004751)*; 12 MONTHS $15,820

FRENZEN, PETER M; *STUDENT ORIGINATED STUDIES: AN INVESTIGATION OF SUCCESSIONAL DEVELOPMENTS ON THE KAUTZ MUDFLOW (SPI-8004751 A01)*; $625

NICHOLS, T RICHARD; *HUMAN MOTOR PERFORMANCE ANALYSIS (SER-8013195)*; 30 MONTHS $10,612

SINCO, MIRA; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014586)*; 16 MONTHS $20,000

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019199*)*; 60 MONTHS $7,720

WASHINGTON STATE UNIVERSITY

WILLETT, ROGER D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926988)*; 12 MONTHS $9,989

MESSERSCHMIDT, DONALD A; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000077)*; 18 MONTHS $29,116

ORLICH, DONALD C; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8008178)*; 18 MONTHS $25,533

HATCH, KATHRYN L; *TEXTILE RESEARCH INSTRUMENTS TO IMPROVE TEXTILE SCIENCE CURRICULUM (SER-8013236)*; 30 MONTHS $18,620

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019198*)*; 60 MONTHS $7,720

WESTERN WASHINGTON UNIVERSITY

GERHOLD, GEORGE A; *COLLEGE FACULTY CONFERENCE (SPI 8009483)*; 18 MONTHS $49,444

WEST VIRGINIA

BETHANY COLLEGE

STEBBINS, RICHARD; *AN INTERDISCIPLINARY, GENERAL EDUCATION PILOT COURSE (SER-8000979)*; 30 MONTHS $10,011

SMITH, MILTON R; *INTRODUCTION OF MASS SPECTROMETRY INTO THE CHEMICAL LABORATORY PROGRAM (SER-8015231)*; 30 MONTHS $5,697

DAVIS AND ELKINS COLLEGE

LAVOIE, ALLAN L; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000379)*; 18 MONTHS $10,315

INDIVIDUAL AWARD

RICE, PATRICIA C; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013108)*; 42 MONTHS $12,230

FEZER, KARL D; *INTERDISCIPLINARY INCENTIVE AWARDS (OSS-8018093)*; 40 MONTHS $8,000

WEST VIRGINIA INSTITUTE OF TECHNOLOGY

DAVID, JOHN P; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000085)*; 18 MONTHS $34,803

WEST VIRGINIA UNIVERSITY

D'AMOUR, GENE; *IPA MOBILITY ASSIGNMENT (GENE D'AMOUR) (SED-7825368 A02)*; 11 MONTHS $2,049

SQUIRE, WILLIAM; *STUDENT SCIENCE TRAINING (SPI-7925554)*; 10 MONTHS $32,000

SUNAL, DENNIS W; *PHYSICALLY HANDICAPPED IN SCIENCE (SPI-8005430)*; 14 MONTHS $45,145

WEST VIRGINIA WESLEYAN COLLEGE

HONSINGER, PHILIP S; *IMPROVEMENT IN SCIENTIFIC COMPUTING PROGRAM (SER-8013879)*; 30 MONTHS $19,650

WISCONSIN

BELOIT COLLEGE

ORDMAN, ALFRED B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926971)*; 12 MONTHS $10,294

JUNGCK, JOHN R; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000376)*; 18 MONTHS $34,873

CARROLL COLLEGE

ISAACS, GERALD L; *GEOMETRIC VISUALIZATION: DYNAMIC GRAPHICS TO DEVELOP MATHEMATICAL PERCEPTION IN PRE-CALCULUS STUDENTS (SED-8012457)*; 18 MONTHS $149,327

INDIVIDUAL AWARD

HODGSON, JAMES R; *FY 1980 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013296)*; 42 MONTHS $5,981

DAUB, EDWARD E; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016363)*; 30 MONTHS $9,750

LAWRENCE UNIVERSITY

WEST, ALLEN C; *ATOMIC FLAME ABSORPTION AND EMISSION SPECTROSCOPY (SER-8015145)*; 30 MONTHS $6,200

MARQUETTE UNIVERSITY

WILSON, OSANNA; *STUDENT SCIENCE TRAINING (SPI-7925485)*; 20 MONTHS $19,190

RYAN, MICHAEL D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926956)*; 12 MONTHS $9,973

WENZEL, THOMAS H; *UTILIZATION OF A COMPUTER GRAPHICS LABORTORY TO IMPROVE ENGINEERING COURSES (SER-8001422)*; 30 MONTHS $21,383

WILSON, OSANNA; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8014582)*; 19 MONTHS $20,000

MILWAUKEE AREA TECHNICAL COLLEGE

LANGER, VICTOR; *CAUSE: INTEGRATING COMPUTER GRAPICS INTO TECHNICIAN TRAINING (SER-8005315)*; 36 MONTHS $250,000

MILWAUKEE PUBLIC MUSEUM

WEST, ROBERT M; *MUSEUM EXHIBIT ON THE EARTH'S STRUCTURE AND HISTORY (OSS-8005393)*; 12 MONTHS $140,113

RIPON COLLEGE

YOUNG, ROBERT H; *CAUSE: COMPUTER RELATED INSTRUCTIONAL IMPROVEMENT (SER-8004917)*; 24 MONTHS $183,270

UNIVERSITY OF WISCONSIN CENTERS

HINER, H RICHARD; *SCIENCE FILM FOR TV ON ACOUSTICS OF THE VIOLIN (OSS-7917990)*; 12 MONTHS $176,388

UNIVERSITY OF WISCONSIN-LA CROSSE

WINE, JAMES D; *TUTORIAL TAPES FOR INDIVIDUALIZED INSTRUCTION IN INTERMEDIATE ALGEBRA (SER-8001385)*; 30 MONTHS $6,561

MILLS, MARGARET; *STUDENT-ORIGINATED STUDIES (SPI-8004017)*; 12 MONTHS $14,862

TAYLOR, PAUL J; *MODERNIZATION OF INSTRUMENTAL ANALYSIS LABORATORY (SER-8012745)*; 30 MONTHS $11,890

UNIVERSITY OF WISCONSIN-MADISON

EICHELMAN, BURR S; *AGGRESSION RESEARCH: INTERNATIONAL ASSESSMENT OF ETHICAL ISSUES AND RESEARCHERS (OSS-8006554)*; 30 MONTHS $18,500

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019202*)*; 60 MONTHS $23,160

UNIVERSITY OF WISCONSIN-MILWAUKEE

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019100)*; 60 MONTHS $7,720

UNIVERSITY OF WISCONSIN-OSHKOSH

GOLDTHWAITE, DANIEL; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001105)*; 18 MONTHS $20,554

UNIVERSITY OF WISCONSIN-PARKSIDE

CLOUGH, FRED W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-7926957)*; 12 MONTHS $11,837

MARRON, MICHAEL T; *INTERACTIVE COMPUTER SIMULATIONS IN AN ADVANCED BIOLOGY LABORATORY (SER-8001426)*; 30 MONTHS $19,385

UNIVERSITY OF WISCONSIN-STEVENS POINT

REED, JACK K; *STUDENT SCIENCE TRAINING (SPI-7925246)*; 10 MONTHS $18,040

WILKE, RICHARD J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000182)*; 18 MONTHS $29,160

KUNG, GEORGE C; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000574)*; 18 MONTHS $27,390

WILKE, RICHARD J; *CENTRAL WISCONSIN SOLID WASTE MANAGEMENT FORUMS (OSS-8016354)*; 9 MONTHS $24,977

UNIVERSITY OF WISCONSIN-STOUT

ONDRUS, MARTIN G; *HIGH PERFORMANCE LIQUID CHROMATOGRAPHY IN ENVIRONMENTAL AND FOOD CHEMISTRY (SER-8015215)*; 30 MONTHS $11,144

UNIVERSITY OF WISCONSIN-WHITEWATER

MAKURAT, PHILLIP; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000075)*; 18 MONTHS $24,785

VITERBO COLLEGE

COLLINS, MICHAEL J; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001207)*; 18 MONTHS $17,745

AMEL, RONALD T; *INTEGRATION OF NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY INTO THE CHEMISTRY CURRICULUM (SER-8015277)*; 30 MONTHS $10,150

WISCONSIN ACADEMY OF SCIENCES ARTS & LETTERS

LEE, LEROY R; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION (SER-8009115)*; 12 MONTHS $28,167

WYOMING

UNIVERSITY OF WYOMING

OLSON, MELFRIED; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8000333)*; 18 MONTHS $23,640

CANTERNA, RONALD W; *DEVELOPMENT OF A SPECIALIZED ASTRONOMY COURSE FOR ELEMENTARY AND JUNIOR HIGH SCHOOL EDUCATION MAJORS (SER-8000872)*; 30 MONTHS $19,990

MAGEE, MICHAEL J; *A MICROCOMPUTER-BASED ARTIFICIAL-INTELLIGENCE LABORATORY (SER-8001643)*; 30 MONTHS $23,631

WYOMING OUTDOOR COUNCIL

KOZISEK, PETER; *AIR QUALITY WORKSHOPS IN WYOMING (OSS-7927227)*; 12 MONTHS $20,576

FELLOWSHIPS

ALABAMA

INDIVIDUAL AWARD

ROMINE, WILLIAM O; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009187)*; 36 MONTHS $15,462

ARIZONA

ARIZONA STATE UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019103)*; 60 MONTHS $7,720

UNIVERSITY OF ARIZONA

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019104*)*; 60 MONTHS $77,200

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019107)*; 60 MONTHS $370,560

INDIVIDUAL AWARD

BAIRD, LISA M; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009150)*; 36 MONTHS $15,300

BARTEAU, MARK A; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009151)*; 36 MONTHS $16,130

BOYD, ROBERT T; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009153)*; 36 MONTHS $15,720

DAVIS, MARK M; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009160)*; 36 MONTHS $14,630

JAFFE, LAURINDA A; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009170)*; 36 MONTHS $15,895

KUWADA, JOHN Y; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009177)*; 36 MONTHS $15,400

SIH, ANDREW; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009190)*; 36 MONTHS $15,775

STEVENS, AMY E; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009191)*; 36 MONTHS $15,530

SULLOWAY, FRANK J; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009193)*; 36 MONTHS $15,928

WARREN, WARREN S; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009196)*; 36 MONTHS $16,240

PIRRUNG, MICHAEL C, *1980 NSF POSTDOCTORAL FELLOWSHIP (SPI-8018082)*; 36 MONTHS $15,898

DEUTSCH, JOSHUA M; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019071)*; 60 MONTHS $7,720

LARSON, ERIC R; *SUPPORT FOR NSF GRADUATE FELLOW (SPI-8019074)*; 60 MONTHS $7,720

RAND GRADUATE INSTITUTE OF POLICY STUDIES

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8022768)*; 36 MONTHS $7,720

STANFORD UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019177*)*; 60 MONTHS $1,096,240

FOSTER, ROBERT F; *1980 NSF POSTDOCTORAL FELLOWSHIP (SPI-8019910)*; 36 MONTHS $15,932

UNIVERSITY OF CALIFORNIA, BERKELEY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019108*)*; 60 MONTHS $640,760

UNIVERSITY OF CALIFORNIA, DAVIS

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019109*)*; 60 MONTHS $100,360

UNIVERSITY OF CALIFORNIA, IRVINE

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019110*)*; 60 MONTHS $30,880

UNIVERSITY OF CALIFORNIA, LOS ANGELES

NONE, N N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019111*)*; 30 MONTHS $108,080

UNIVERSITY OF CALIFORNIA, SAN DIEGO

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019112)*; 60 MONTHS $254,760

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019113)*; 60 MONTHS $92,640

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019114)*; 60 MONTHS $30,880

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019115*)*; 60 MONTHS $30,880

COLORADO

COLORADO STATE UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019121)*; 60 MONTHS $15,440

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019121 A01)*; 60 MONTHS $7,720

INDIVIDUAL AWARD

BOSWELL, ROBERT E; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009152)*; 36 MONTHS $15,656

UNIVEPSITY OF COLORADO AT BOULDER

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019122)*; 60 MONTHS $84,920

UNIVERSITY OF DENVER

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8018316)*; 60 MONTHS $7,720

CONNECTICUT

UNIVERSITY OF CONNECTICUT

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019124)*; 60 MONTHS $30,880

YALE UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019203*)*; 60 MONTHS $277,920

DISTRICT OF COLUMBIA

GEORGETOWN UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019130*)*; 60 MONTHS $7,720

INDIVIDUAL AWARD

QUADAGNO, JILL BETH; *1979 NATIONAL NEEDS POSTDOCTROAL FELLOWSHIP (SPI-7914887 A01)*; 36 MONTHS $250

NATIONAL ACADEMY OF SCIENCES

HANSING, FRANK D; *NSF POSTDOCTORAL FELLOWSHIP EVALUATION SERVICES (SPI-8020961)*; 14 MONTHS $127,200

HANSING, FRANK D; *APPLICATION EVALUATION SERVICES FOR GRADUATE FELLOWSHIPS AND ACCOMPANYING ANCILLARY SERVICES (SPI-8022291)*; 12 MONTHS $397,000

FLORIDA

FLORIDA STATE UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019128)*; 60 MONTHS $46,320

INDIVIDUAL AWARD

FIELDS, STANLEY; *SUPPORT FOR NSF GRADUATE FELLOW (SPI-8019072)*; 60 MONTHS $7,720

UNIVERSITY OF FLORIDA

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019129)*; 60 MONTHS $69,480

UNIVERSITY OF MIAMI

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019149)*; 36 MONTHS $7,720

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019131)*; 60 MONTHS $30,880

UNIVERSITY OF GEORGIA

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019132)*; 60 MONTHS $54,040

GERMANY FED REPUBLIC OF

GERMAN ELECTRON SYNCHROTRON

POLCHINSKI, JOSEPH G; *1980 NSF POSTDOCTORAL FELLOWSHIP (SPI-8019912)*; 36 MONTHS $15,300

IDAHO

UNIVERSITY OF IDAHO
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019136)*; 60 MONTHS $7,720

ILLINOIS

INDIVIDUAL AWARD
CLEMENS, JOHN M; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009157)*; 36 MONTHS $15,450
JOHNSON, ERIC J; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009172)*; 36 MONTHS $15,830
ROTHGEB, TIMOTHY M; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009188)*; 36 MONTHS $15,300
STRATT, RICHARD M; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009192)*; 36 MONTHS $15,300
WALTERS, JEFFREY R; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009195)*; 36 MONTHS $15,955
MATTHEWS, PAUL M; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019075)*; 60 MONTHS $7,720

NORTHWESTERN UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019161*)*; 60 MONTHS $77,200

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019176)*; 36 MONTHS $7,720

UNIVERSITY OF CHICAGO
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019119*)*; 60 MONTHS $393,720

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8020570)*; 60 MONTHS $7,720

UNIVERSITY OF ILLINOIS AT URBANA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019137*)*; 60 MONTHS $193,000

INDIANA

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019138)*; 60 MONTHS $38,600

INDIVIDUAL AWARD
ASHBY, F GREGORY; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009149)*; 36 MONTHS $15,528
MAJESKI, STEPHEN J; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009180)*; 36 MONTHS $10,300

PURDUE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019171)*; 60 MONTHS $92,640

UNIVERSITY OF NOTRE DAME
NONE, NONE N; *SUPPORT OF NSF GRADUATE FELLOWS (SPI-8019091 A01)*; 60 MONTHS $7,720

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019139)*; 48 MONTHS $15,440
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019140)*; 60 MONTHS $23,160

KANSAS

INDIVIDUAL AWARD
FRIEDRICH, FRANCES J; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009163)*; 36 MONTHS $15,610

UNIVERSITY OF KANSAS MAIN CAMPUS
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019142)*; 60 MONTHS $30,880

LOUISIANA

LOUISIANA STATE UNIVERSITY MEDICAL CENTER
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019144)*; 60 MONTHS $7,720

LOUISIANA STATE UNIVERSITY SYSTEM OFFICE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019143)*; 60 MONTHS $7,720

MARYLAND

JOHNS HOPKINS UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019141*)*; 60 MONTHS $131,240

NATIONAL INSTITUTES OF HEALTH
MILLER, JOHN P; *1980 NSF POSTDOCTORAL FELLOWSHIP (SPI-8019911)*; 36 MONTHS $15,826

UNIVERSITY OF MARYLAND, COLLEGE PARK
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019145)*; 60 MONTHS $38,600

MASSACHUSETTS

BOSTON UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019105)*; 60 MONTHS $7,720

HARVARD UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019133*)*; 60 MONTHS $1,019,040

INDIVIDUAL AWARD
GEISELMAN, JOY A; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009166)*; 36 MONTHS $15,808
KEREWSKY HALPER, BARBARA; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009176)*; 36 MONTHS $15,300
NEWMAN, ERIC A; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009183)*; 36 MONTHS $14,700
GATES, SYLVESTER; *1980 NSF POSTDOCTORAL FELLOWSHIP (SPI-8018080)*; 36 MONTHS $16,496

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019146*)*; 60 MONTHS $1,165,720

NORTHEASTERN UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019160)*; 48 MONTHS $7,720

TUFTS UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019189)*; 48 MONTHS $7,720

UNIVERSITY OF MASSACHUSETTS, AMHERST
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019147*)*; 48 MONTHS $15,440

MICHIGAN

INDIVIDUAL AWARD
BROWN, PHILIP E; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009155)*; 36 MONTHS $14,252
JONASSEN, JULIE A; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009174)*; 36 MONTHS $15,485

MICHIGAN STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8015150*)*; 60 MONTHS $69,480

UNIVERSITY OF MICHIGAN
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019151*)*; 60 MONTHS $308,800

MINNESOTA

INDIVIDUAL AWARD
FAST, LOREN D; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009162)*; 36 MONTHS $15,290
LARKEY, LEAH S; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009178)*; 36 MONTHS $15,575
NOTHNAGEL, EUGENE A; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009184)*; 36 MONTHS $15,635
GRIMM, ERIC C; *1980 NSF POSTDOCTORAL FELLOWSHIP (SPI-8018081)*; 36 MONTHS $15,685

UNIVERSITY OF MINNESOTA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019152)*; 60 MONTHS $131,240

MISSOURI

INDIVIDUAL AWARD
HOWARD, RICHARD J; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009168)*; 36 MONTHS $15,300

ST LOUIS UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019178)*; 36 MONTHS $7,720

UNIVERSITY OF MISSOURI SYSTEM OFFICE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019153)*; 60 MONTHS $7,720

UNIVERSITY OF MISSOURI, ROLLA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019154)*; 60 MONTHS $30,880

WASHINGTON UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019197*)*; 60 MONTHS $46,320

MONTANA

UNIVERSITY OF MONTANA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019155)*; 60 MONTHS $7,720

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE SYSTEM OFFICE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019156)*; 36 MONTHS $7,720

NEW JERSEY

EDUCATIONAL TESTING SERVICE
GLAUBITZ, J; *GRADUATE RECORD EXAMINATIONS SERVICES FOR THE NATIONAL SCIENCE FOUNDATION GRADUATE AND MINORITY FELLOWSHIP PROGRAMS (SPI-8000480)*; 12 MONTHS $13,440

INDIVIDUAL AWARD
GINSBERG, MATTHEW L; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-7821650 A02)*; 12 MONTHS $360
DETURCK, DENNIS M; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009161)*; 36 MONTHS $15,300
JANETOS, ANTHONY C; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009171)*; 36 MONTHS $15,736

PRINCETON UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019170*)*; 60 MONTHS $494,080

NEW MEXICO

UNIVERSITY OF NEW MEXICO
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019157)*; 36 MONTHS $7,720

NEW YORK

CITY UNIVERSITY OF NEW YORK SYSTEM OFFICE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019120)*; 48 MONTHS $7,720

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019179)*; 60 MONTHS $15,440

COLUMBIA UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019123)*; 60 MONTHS $92,640

CORNELL UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019125*)*; 60 MONTHS $478,640

INDIVIDUAL AWARD
ISAACSON, ELI L; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009169)*; 36 MONTHS $15,300
MARCUS, PHILIP S; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009181)*; 36 MONTHS $15,370
CHILDS, EDWARD P; *SUPPORT FOR NSF GRADUATE FELLOW (SPI-8018119)*; 60 MONTHS $7,720
REUTER-LORENZ, PATRICIA; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8018120)*; 60 MONTHS $7,720
FOSTER, ROBERT J; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8018610)*; 60 MONTHS $7,720
KATZ, MICHAEL L; *SUPPORT FOR NSF GRADUATE FELLOW (SPI-8019073)*; 60 MONTHS $7,720

NEW YORK UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019158)*; 60 MONTHS $15,440

ROCKEFELLER UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019175)*; 60 MONTHS $84,920

STATE UNIVERSITY AT BUFFALO
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019180)*; 60 MONTHS $15,440

STATE UNIVERSITY AT STONY BROOK
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019181)*; 48 MONTHS $7,720

SYRACUSE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019182*)*; 60 MONTHS $15,440

UNIVERSITY OF ROCHESTER
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019174)*; 60 MONTHS $7,720

YESHIVA UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019204)*; 60 MONTHS $15,440

NORTH CAROLINA

DUKE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019126)*; 60 MONTHS $100,360

INDIVIDUAL AWARD
RUEBUSH, MARY J; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009156)*; 36 MONTHS $15,300

UNIVERSITY OF NORTH CAROLINA SYSTEM OFFICE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019159*)*; 60 MONTHS $131,240

WAKE FOREST UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019195)*; 48 MONTHS $7,720

OHIO

CASE WESTERN RESERVE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019117)*; 60 MONTHS $7,720

OHIO STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019162*)*; 60 MONTHS $30,880

OKLAHOMA

OKLAHOMA STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019163)*; 60 MONTHS $7,720

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019164)*; 36 MONTHS $7,720

OREGON

OREGON STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019165)*; 60 MONTHS $23,160

UNIVERSITY OF OREGON - EUGENE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019166)*; 60 MONTHS $23,160

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019116)*; 60 MONTHS $138,960

INDIVIDUAL AWARD
GEDDES, DAVID S; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009165)*; 36 MONTHS $16,480
KEENEY, MARK E; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009175)*; 36 MONTHS $16,120

PENNSYLVANIA STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019167)*; 60 MONTHS $54,040

UNIVERSITY OF PENNSYLVANIA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019168*)*; 60 MONTHS $115,800

UNIVERSITY OF PITTSBURGH
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019169)*; 60 MONTHS $7,720

RHODE ISLAND

BROWN UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019106*)*; 60 MONTHS $38,600

UNIVERSITY OF RHODE ISLAND
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019172)*; 60 MONTHS $7,720
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019172 A01)*; $7,720

SOUTH CAROLINA

COLLEGE OF CHARLESTON
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019118)*; 60 MONTHS $15,440

MEDICAL UNIVERSITY OF SOUTH CAROLINA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019148)*; 48 MONTHS $7,720

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019183*)*; 48 MONTHS $7,720

UNIVERSITY OF TENNESSEE CENTER FOR HEALTH SCS
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019184)*; 60 MONTHS $7,720

VANDERBILT UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019192)*; 60 MONTHS $23,160

SPECIAL FOREIGN CURRENCY

TEXAS

BAYLOR COLLEGE OF MEDICINE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8020569)*; 60 MONTHS $7,720
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8022983)*; 24 MONTHS $420

INDIVIDUAL AWARD
PEAR, MICHAEL R; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009185)*; 36 MONTHS $15,300

RICE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019173*)*; 60 MONTHS $38,600

TEXAS TECH UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019185*)*; 60 MONTHS $7,720

UNIV OF HOUSTON SYSTEM ADMIN CENTRAL OFFICE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019134*)*; 60 MONTHS $7,720

UNIV OF TEXAS AT AUSTIN
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019186*)*; 60 MONTHS $61,760

UNIV OF TEXAS HEALTH SCIENCE CENTER AT DALLAS
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019187)*; 48 MONTHS $15,440

UNIV OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019188)*; 48 MONTHS $7,720

UTAH

INDIVIDUAL AWARD
JOHNSTON, HENRY M; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009173)*; 36 MONTHS $15,535

UNIVERSITY OF UTAH
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019191)*; 60 MONTHS $23,160

UTAH STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019190)*; 48 MONTHS $7,720
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8022655)*; 60 MONTHS $7,720

VIRGINIA

COLLEGE OF WILLIAM AND MARY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019201)*; 60 MONTHS $7,720

EASTERN VA MED SCH OF THE EASTERN VA MED AUTH
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019127)*; 60 MONTHS $7,720

INDIVIDUAL AWARD
ABRAMOWITZ, ALAN I; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009148)*; 36 MONTHS $14,050
BROWN, DALE D; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009154)*; 36 MONTHS $14,100
VOAS, DAVID W; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019076)*; 18 MONTHS $7,720

KAPPA SYSTEMS INC
YOCUM, JAMES; *DATA PROCESSING SERVICES TO SUPPORT PROPOSAL PROCESSING ACTIVITIES OF THE SCIENCE EDUCATION DIRECTORATE (SER-7819643 A01*)*; 12 MONTHS $19,776

UNIVERSITY OF VIRGINIA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019194*)*; 60 MONTHS $61,760

VIRGINIA POLYTECHNIC INSTITUTE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019193)*; 48 MONTHS $15,440

WASHINGTON

INDIVIDUAL AWARD
GILL, RONALD E; *1980 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (SPI-8009167)*; 36 MONTHS $15,615
BODANSKY, DANIEL M; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019070)*; 60 MONTHS $7,720

UNIVERSITY OF WASHINGTON
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019199*)*; 60 MONTHS $247,040
BIERBAUM, TODD J; *1980 NSF POSTDOCTORAL FELLOWSHIP (SPI-8019909)*; 36 MONTHS $15,605
SMITH, ERIC A; *1980 NSF POSTDOCTORAL FELLOWSHIP (SPI-8019913)*; 36 MONTHS $15,300

WASHINGTON STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019197*)*; 60 MONTHS $7,720

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019200)*; 48 MONTHS $7,720

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019202*)*; 60 MONTHS $362,840

WYOMING

UNIVERSITY OF WYOMING
NONE, NONE; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8021076)*; 60 MONTHS $7,720

SCIENTIFIC AND TECHNOLOGICAL

INDIA

AMERIND PUBLISHING COMPANY LTD
PRIMLANI, MOHAN; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) TO TRANSLATE FOREIGN SCIENTIFIC AND TECHNICAL LITERATURE INTO ENGLISH FOR U.S. AGENCIES (INT-7104528 A27)*; 36 MONTHS $350,000

PAKISTAN

MESSRS SAAD PUBLICATIONS
SAAD, GETI; *SPECIAL FOREIGN CURRENCY AWARD (IN PAKISTAN CURRENCY) TO TRANSLATE FOREIGN SCIENTIFIC AND TECHNICAL LITERATURE INTO ENGLISH FOR U.S. AGENCIES (INT-6700207 A31)*; 31 MONTHS $250,000

SCIENTIFIC RESEARCH

CALIFORNIA

CALIFORNIA STATE UNIVERSITY, FULLERTON
PRZEKOP, LAWRENCE R; *SPECIAL FOREIGN CURRENCY AWARD (IN EGYPTIAN CURRENCY AND U.S. DOLLARS) FOR RESEARCH AND DEVELOPMENT IN SCIENCE EDUCATION (INT-7920013*)*; 24 MONTHS $14,200

LINDVALL RICHTER & ASSOCIATES
LINDVALL, C E; *STRONG MOTION EARTHQUAKE INSTRUMENTATION ARRAY IN SHILLONG, ASSAM, INDIA (PFR-8007159*)*; 24 MONTHS $27,800

UNIVERSITY OF SANTA CLARA
PEFLEY, RICHARD K; *SPECIAL FOREIGN CURRENCY AWARD (INCLUDING INDIAN CURRENCY AND U.S. DOLLARS) FOR RESEARCH ON COMBUSTION OF ALCOHOL AND BIOGAS, A CONTINUATION (INT-7920329 A01*)*; 36 MONTHS $26,644

COLORADO

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH
BRETHERTON, FRANCIS P; *CONTRACT FOR THE OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (NCAR) (AST-7723757 A53)*; $420,000
BRETHERTON, FRANCIS P; *CONTRACT FOR MANAGEMENT, OPERATIONS AND MAINTENANCE OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (ATM-7723757 A60*)*; $225,803

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE
RATCHFORD, J THOMAS; *SPECIAL FOREIGN CURRENCY AWARD (INDIAN CURRENCY) FOR A GLOBAL SEMINAR ON THE ROLE OF SCIENTIFIC & ENGINEERING SOCIETIES IN DEVELOPMENT (INT-8006190*)*; 12 MONTHS $174,000

AMERICAN CHEMICAL SOCIETY (ACS)
PONNAMPERUMA, CYRIL; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) TO SUPPLEMENT THE GRANT: 'A WORKSHOP IN BANGALORE, INDIA IN JAN. 1980 FOR COOP. WITH INDIAN CHEMICAL SOCIETY (INT-7908252 A02)*; 6 MONTHS $4,000

DEPARTMENT OF STATE
BANYAS, JOSEPH G; *FOREIGN AFFAIRS ADMINISTRATIVE SUPPORT (FAAS) AND DISTRIBUTED ADMINISTRATIVE SUPPORT (DAS) EXPENSES (INT-8021018)*; 12 MONTHS $10,526

GEORGE WASHINGTON UNIVERSITY
MAHMOOD, KHALID; *SPECIAL FOREIGN CURRENCY AWARD (PAKISTANI CURRENCY AND U.S. DOLLARS) FOR PROTOTYPE RESEARCH ON ALLUVIAL CHANNELS IN IRRIGATION CANALS AND MEDIUM SIZE RIVERS (INT-8009474*)*; 48 MONTHS $102,020

INDIVIDUAL AWARD

NARASIMHAM, GORTI V; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) TO WORK AT THE UNIVERSITY OF HYDERABAD AS A GUEST SCIENTIST (INT-7919903)*; 12 MONTHS $8,500

EGYPT

AIN SHAMS UNIVERSITY

KOTB, YOUSEF S; *SPECIAL FOREIGN CURRENCY AWARD (IN EGYPTIAN CURRENCY) FOR RESEARCH AND DEVELOPMENT IN SCIENCE EDUCATION (INT-7701338 A02)*; 12 MONTHS $76,371

CAIRO UNIVERSITY

HILAL, SAYED; *SPECIAL FOREIGN CURRENCY AWARD (IN EGYPTIAN CURRENCY) FOR A BOTANICAL AND CHEMICAL INVESTIGATION OF TOXIC EGYPTIAN TERRESTRIAL AND MARINE WEEDS (INT-7811290 A01)*; 12 MONTHS $15,331

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

ZUNDE, PRANAS; *U.S.-INDIA WORKSHOP ON MODELING NATIONAL SCIENCE AND TECHNOLOGY INFORMATION SYSTEMS, NEW DELHI, MARCH 10-12, 1980 (AWARD IN INDIAN CURRENCY) (INT-8001635*)*; 6 MONTHS $20,650

ILLINOIS

NORTHWESTERN UNIVERSITY

RUBENSTEIN, ALBERT H; *DOCTORAL DISSERTATION RESEARCH: INTER AND INTRA ORGANIZATIONAL INFLUENCES ON THE MEASUREMENT OF R&D OUTPUTS IN U.S. AND INDIAN SCIENTIFIC RESEARCH LABS (INT-8016838*)*; 12 MONTHS $7,000

UNIVERSITY OF CHICAGO

RUDOLPH, LLOYD I, AND RUDOLPH, SUSANNE H; *A COMPARATIVE ANALYSIS OF STATE FORMATION IN INDIA (SES-7907100 A01*)*; $8,674

RUDOLPH, LLOYD I, AND RUDOLPH, SUSANNE H; *A COMPARATIVE ANALYSIS OF STATE FORMATION IN INDIA (SES-7907100 A03*)*; $7,500

INDIA

INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

RAMAKRISHNAN, P; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) FOR STUDY OF RECLAMATION AND RECYCLING OF FERROUS SCRAP BY POWDER METALLURGY PROCESS (INT-8003187)*; 36 MONTHS $70,060

INDIAN INSTITUTE OF TECHNOLOGY, MADRAS

MURTHY, B S; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) FOR RESEARCH ON COMBUSTION OF ALCOHOL AND BIOGAS, A CONTINUATION (INT-7918702 A01)*; 36 MONTHS $51,067

IOWA

UNIVERSITY OF IOWA

MCNULTY, MICHAEL L, AND RUSHTON, GERARD; *A COMPARATIVE ANALYSIS OF THE LOCATIONAL EFFICIENCY OF RURAL SERVICE DELIVERY SYSTEMS (SES-7925069*)*; 24 MONTHS $66,555

MCNULTY, MICHAEL L, AND RUSHTON, GERARD; *A COMPARATIVE ANALYSIS OF THE LOCATIONAL EFFICIENCY OF RURAL SERVICE DELIVERY SYSTEMS (SES-7925069 A01*)*; $3,000

RUSHTON, GERARD, AND MCNULTY, MICHAEL L; *PLANNING TECHNIQUES FOR THE EFFICIENT LOCATION OF PUBLIC SERVICE FACILITIES IN INDIA (INT-8017879*)*; 24 MONTHS $38,660

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

BAUMGARTEL, HOWARD; *SPECIAL FOREIGN CURRENCY AWARD (INCLUDING U.S. DOLLARS AND INDIAN CURRENCY) FOR A GUEST SCIENTIST TO STUDY MANAGEMENT DEVELOPMENT AND TECHNOLOGICAL INNOVATION (INT-8018161*)*; 12 MONTHS $14,000

MAINE

UNIVERSITY OF MAINE, ORONO

BORNS, HAROLD W; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR A FIELD CONFERENCE ON INDIAN GEOLOGY (INT-7922903*)*; 24 MONTHS $23,460

MARYLAND

JOHNS HOPKINS UNIVERSITY-SCHOOL OF HYGIENE & PUBLIC HEALTH

GROSSMAN, LAWRENCE, AND RIAZUDDIN, SHEIKH; *SPECIAL FOREIGN CURRENCY AWARD (IN PAKISTANI CURRENCY AND U.S. DOLLARS) FOR STUDY OF ENZYMOLOGY OF DNA REPAIR (INT-8005168*)*; 42 MONTHS $15,751

MASSACHUSETTS

BRANDEIS UNIVERSITY

DAVIS, MARVIN; *LEGAL USE AND LEGAL CHANGE (BNS-7924740*)*; 15 MONTHS $7,508

HARVARD UNIVERSITY

DEVORE, IRVEN; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-7923014*)*; 24 MONTHS $2,574

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

TORRIANI, ANNAMARIA; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR STUDIES ON MECHANISM AND CONTROL OF TRANSCRIPTION AND TRANSLATION IN VIVO AND IN VITRO (INT-8016104*)*; 12 MONTHS $11,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

KARASZ, FRANK E; *SPECIAL FOREIGN CURRENCY AWARD (INCLUDING INDIAN CURRENCY) FOR U.S. PARTICIPANTS AT THE IUPAC SYMPOSIUM ON 'NEW FRONTIERS IN POLYMER APPLICATIONS' IN INDIA (INT-7922902*)*; 6 MONTHS $21,850

MICHIGAN

MICHIGAN STATE UNIVERSITY

LUBKIN, JAMES L; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) FOR A GUEST SCIENTIST: COMPUTER-ASSISTED ENGINEERING INSTRUCTION (INT-7924968)*; 18 MONTHS $13,161

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

BASU, ASIT P; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) FOR A GUEST SCIENTIST TO CARRY OUT RESEARCH AT THE INDIAN STATISTICAL INSTITUTE, CALCUTTA, INDIA (INT-8009463)*; 12 MONTHS $34,189

NEW HAMPSHIRE

AMERICAN UNIVERSITIES FIELD STAFF

THOMPSON, JOHN M; *SEMINAR ON FACTORS AFFECTING FOOD PRODUCTION AND DISTRIBUTION IN SELECTED DEVELOPING COUNTRIES (AWARD INCLUDES INDIAN CURRENCY) (INT-8017210*)*; 12 MONTHS $28,750

DARTMOUTH COLLEGE

JOHNSON, NOYE M, AND LYONS, JOHN B; *SPECIAL FOREIGN CURRENCY AWARD (IN PAKISTANI CURRENCY AND U.S. DOLLARS) FOR STUDY OF THE UPLIFE HISTORY OF THE KARAKORUM-HINDUKUSH RANGES (INT-8019373*)*; 24 MONTHS $89,394

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

MAYEWSKI, PAUL A; *HIMALAYAN PALEOCLIMATE PROGRAM (HIPP) - A GLACIOLOGICAL APPROACH (INT-8003175*)*; 12 MONTHS $24,828

NEW JERSEY

PRINCETON UNIVERSITY

PHINNEY, ROBERT A; *INDO-U.S. COOPERATIVE STUDIES OF THE PROCESSING AND INTERPRETATION OF DEEP SEISMIC SOUNDING (DSS) DATA (EAR-8006013*)*; 36 MONTHS $11,055

NEW YORK

BROOKLYN COLLEGE

BHATTACHARJI, SOMDEV; *SPC AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR A WORKSHOP ON THE CRUST-MANTLE GEOLOGY OF INDIA (INT-8018117*)*; 12 MONTHS $41,386

COLUMBIA UNIVERSITY

PAUL, DAVID I; *STATICS AND DYNAMICS OF THE MAGNETIZATION PROCESS IN FERROMAGNETIC MATERIALS (INT-8012838)*; 8 MONTHS $40,850

CORNELL UNIVERSITY

LUST, BARBARA; *CONSTRAINT ON ANAPHORA IN FIRST LANGUAGE ACQUISITION: A STUDY OF 6 LANGUAGES (BNS-7825115 A01*)*; 12 MONTHS $1,595

KENNEDY, KENNETH A; *MESOLITHIC SKELETAL BIOLOGY (BNS-8014293*)*; 12 MONTHS $6,000

SOCIAL SCIENCE RESEARCH COUNCIL

PREWITT, KENNETH; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY AND U. S. DOLLARS) TO STUDY SOUTH ASIAN POLITICAL ECONOMY (INT-8009530*)*; 24 MONTHS $131,854

TRAVEL AWARD

TANEN, TED M; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) FOR SUPPORT OF RESEARCH IN INDIA UNDER THE INDO-AMERICAN EXCHANGE OF SCHOLARS PROGRAM (INT-8015988)*; 30 MONTHS $375,270

NORTH CAROLINA

DUKE UNIVERSITY

FOX, RICHARD G; *COLONIAL POLITICAL ECONOMY AND AGRARIAN DEVELOPMENT (BNS-8007726*)*; 15 MONTHS $8,450

OHIO

UNIVERSITY OF CINCINNATI

DE JONG, KEES A; *SPECIAL FOREIGN CURRENCY AWARD (PAKISTANI CURRENCY AND U.S. DOLLARS) FOR STUDY OF GEODYNAMICS OF PAKISTAN (INT-8013158*)*; 24 MONTHS $180,400

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

HADY, M A; *SPECIAL FOREIGN CURRENCY AWARD (EGYPTIAN CURRENCY AND U.S. DOLLARS) FOR USE OF MODERN REMOTE SENSING TECHNIQUES IN MONITORING DESERTIFICATION AND NATURAL RESOURCES (INT-8005188*)*; 36 MONTHS $311,710

PAKISTAN

NUCLEAR INSTITUTE FOR AGRICULTURE AND BIOLOGY

RIAZUDDIN, SHEIKH; *SPECIAL FOREIGN CURRENCY AWARD (PAKISTANI CURRENCY) FOR THE STUDY OF ENZYMOLOGY OF DNA REPAIR (INT-7709501 A02)*; 24 MONTHS $51,542

PAKISTAN WATER & POWER DEVELOPMENT AUTHORITY

TARAR, RIAZ N, AND MAHMOOD, KHALID; *SPECIAL FOREIGN CURRENCY AWARD (PAKISTANI CURRENCY) FOR PROTOTYPE RESEARCH ON ALLUVIAL CHANNELS IN IRRIGATION CANALS AND MEDIUM SIZE RIVERS (INT-8019241)*; 12 MONTHS $480,000

PENNSYLVANIA

AMERICAN INSTITUTE OF INDIAN STUDIES

DIMOCK, EDWARD C; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR RESEARCH SUPPORT OF U.S. SCIENTISTS WORKING IN INDIA (INT-8016982*)*; 12 MONTHS $349,321

UNIVERSITY OF PITTSBURGH

WALLACE, W E; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY): A BI-NATIONAL (U.S.-INDIA) CONFERENCE ON THE SCIENCE AND TECHNOLOGY OF RARE EARTH MATERIALS (INT-7923963*)*; 6 MONTHS $33,030

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

KANES, WILLIAM H; *SPECIAL FOREIGN CURRENCY AWARD (IN EGYPTIAN POUNDS) TO STUDY THE EVOLUTION AND DISRUPTION OF A MAJOR CRATON (INT-7801469 A04)*; $251,714

WASHINGTON

UNIVERSITY OF WASHINGTON

ROHWER, SIEVERT A; *DOCTORAL DISSERTATION RESEARCH IN PSYCHOBIOLOGY (BNS-7906316*)*; 24 MONTHS $7,881

INTERNATIONAL TRAVEL

ARIZONA

TRAVEL AWARD

NEUMAN, SHLOMO P; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH SCIENTISTS OF OSMANIA UNIVERSITY, HYDERABAD, INDIA; DEC 20, 1979 - JAN 18, 1980 (INT-7926075)*; 6 MONTHS $2,406

STINI, WILLIAM A; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL SYMPOSIUM ON HUMAN GROWTH; PATIALA, INDIA; FEB 18-23, 1980 (INT-7926125)*; 6 MONTHS $2,296

CALIFORNIA

MACDOUGALL, J DOUGLAS; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7918948)*; 12 MONTHS $1,827

LANGRIDGE, ROBERT; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; JAN 3-30, 1980 (INT-7918943)*; 12 MONTHS $1,993

VAN HECKE, GERALD R; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND CONFERENCE ON LIQUID CRYSTALS; BANGALORE, INDIA; DEC 3-8, 1979 (INT-7911192)*; 6 MONTHS $1,977

BLANCH, HARVEY W; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE SYMPOSIUM ON FUTURE RESOURCES OF RAW MATERIALS; BOMBAY, INDIA; MARCH 29-31, 1980 (INT-7926506)*; 6 MONTHS $1,960

MARSDEN, JR., SULLIVAN S; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE CHEM & TECH '80 EXHIBITION AND CONGRESS; BOMBAY, INDIA; JANUARY 17 - 24, 1980 (INT-7927973)*; 6 MONTHS $2,346

LAZAROFF, LOUIS; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT TO CONFER WITH INDIAN SCIENTISTS ON SCIENTIFIC RESEARCH ON UNDERUTILIZED PLANT SPECIES (INT-7927774)*; 6 MONTHS $2,149

KISTNER, DAVID H; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN PAKISTANI CURRENCY) TO DEVELOP A JOINT PROJECT ON TERMITES AND TERMITOPHILES; LAHORE, PAKISTAN; MARCH 31 - APRIL 4, 1980 (INT-8006810)*; 6 MONTHS $2,790

WOOSLEY, STANFORD E; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN A CONFERENCE ON NUCLEOSYNTHESIS; BOMBAY, INDIA; MAY 19-24, 1980 (INT-8010751)*; 6 MONTHS $1,946

BALU, NEAL J; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE ON ELECTRIC POWER SYSTEMS ANALYSIS AT INDIAN INSTITUTE OF TECHNOLOGY; BOMBAY, INDIA; JUNE 6 - AUG 4, 1980 (INT-8011358)*; 6 MONTHS $1,996

KAILATH, THOMAS; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO WORK ON A JOINT RESEARCH PROPOSAL ON FAST ALGORITHMS AT INDIAN INSTITUTE OF TECH; NEW DELHI, INDIA; 8/0$_9$-9/24/80 (INT-8017641)*; 6 MONTHS $2,959

ASHLEY, HOLT; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH SCIENTISTS ON AERONAUTICS IN INDIA (INT-8018865)*; 6 MONTHS $2,451

COLORADO

DUBOW, JOEL; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH SCIENTISTS IN INDIA; NOV 1-12, 1979 (INT-7922911)*; 6 MONTHS $1,447

LIND, DAVID A; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH SCIENTISTS AT BHABHA ATOMIC RESEARCH CENTRE; CALCUTTA, INDIA; JANUARY 1980 (INT-7927468)*; 6 MONTHS $2,316

KASAHARA, AKIRA; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND SCHOOL ON COMPUTER TECHNIQUES IN METEOROLOGY, BIO-MECH, & APPLIED SYSTEMS, NEW DELHI, INDIA FEB 4-13, 1980 (INT-8003901)*; 6 MONTHS $2,189

CONNECTICUT

ROHNER, RONALD P; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO FINALIZE RESEARCH PROJECT AT SAUGAR UNIVERSITY, INDIA; NOVEMBER 1979 (INT-7918160)*; 6 MONTHS $1,849

ROHNER, EVELYN C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH SCIENTISTS AT SAUGAR UNIVERSITY, INDIA (INT-7918168)*; 6 MONTHS $1,959

GAREN, ALAN; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; DEC 12-30, 1979 (INT-7918949)*; 12 MONTHS $2,225

CHOVNICK, ARTHUR; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE CONFERENCE ON DEVELOPMENT AND BEHAVIOR OF DROSOPHILA; BOMBAY, INDIA; DEC 19-22, 1979 (INT-7926076)*; 6 MONTHS $1,141

SHANKAR, R; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO WORK WITH PHYSICISTS IN INDIA ON THE THEORY OF ELEMENTARY PARTICLES; BANGALORE, INDIA; FEB - MARCH 1980 (INT-7926507)*; 6 MONTHS $1,109

IYENGAR, SHANTO; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE ON POLITICAL SCIENCE IN HYDERABAD, INDIA; MARCH 14 - APRIL 6, 1980 (INT-8004861)*; 6 MONTHS $1,952

DELAWARE

WILLIAMS, FERD; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7918928)*; 12 MONTHS $1,823

DISTRICT OF COLUMBIA

DAWDY, DAVID R; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL SYMPOSIUM ON HYDROLOGICAL ASPECTS OF DROUGHTS; NEW DELHI, INDIA; DEC 3-7, 1979 (INT-7920131)*; 6 MONTHS $1,900

MAHALANABIS, A K; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH U.S. SCIENTISTS ON A JOINT RESEARCH PROJECT (INT-7923733)*; 6 MONTHS $2,351

RAO, M M; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO COLLECT UPPER ATMOSPHERIC DATA AT WORLD DATA CENTER, BOULDER, COLORADO (INT-7926132)*; 6 MONTHS $2,282

VAISHNAV, RAMESH N; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND SCHOOL IN COMPUTER TECHNIQUES IN METEOROLOGY, BIOMECHANICS & APPLIED SYS; NEW DELHI, INDIA; FEB 4-13, 1980 (INT-7926509)*; 6 MONTHS $1,877

HENRIE, THOMAS A; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT(INDIAN CURRENCY) TO ATTEND 3RD INTERN'L TRADE EXPOSITION & CONGRESS FOR OIL, GAS CHEM & CHEM ENG INDUSTRIES; BOMBAY, INDIA; MARCH 15-21, 1980 (INT-792...173)*; 6 MONTHS $2,000

SOOD, P C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL CONFERENCE ON BAND STRUCTURE & NUCLEAR DYNAMICS; NEW ORLEANS, LOUISIANA; 2/23 - 3/1/80 (INT-8000945)*; 6 MONTHS $2,234

MAHABALA, H N; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE 1ST NATIONAL ONLINE INFORMATION MEETING; NEW YORK; MARCH 25-27, 1980 (INT-8008343)*; 6 MONTHS $2,116

BISHAY, ADLI; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (EGYPTIAN CURRENCY) TO ATTEND 12TH INTERNATIONAL CONGRESS ON GLASS, ALBUQUERQUE, NEW MEXICO, USA, JULY 6-11, 1980 (INT-8012306)*; 6 MONTHS $1,311

SUBBARAO, E C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN 1ST INTERNATIONAL CONFERENCE ON SCIENCE & TECHNOLOGY OF ZIRCONIA; CLEVELAND, OHIO, JUNE 16-19, 1980 (INT-8016000)*; 6 MONTHS $2,554

FLORIDA

ESTOQUE, MARIANO A; *SPC TRAVEL SUPPORT (INDIAN CURRENCY) TO ATTEND SCHOOL ON RECENT ADVANCES IN COMPUTER TECH-*

NIQUES IN METEOROLOGY, BIOMECHANICS & APPLD SYSTEMS; NEW DELHI, INDIA; FEB 4-13, 1980 (INT-7924047); 6 MONTHS $2,071

GEORGIA

BERRY, JOHN T; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN EGYPTIAN CURRENCY) TO ATTEND 1ST CAIRO UNIV CONFERENCE ON MECHANICAL DESIGN & PRODUCTION; CAIRO, EGYPT; DEC 27-29, 1979 (INT-7926761);* 6 MONTHS $1,363

GOULD, KENNETH G; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH SCIENTISTS IN INDIA ON PRIMATES (INT-8003156);* 6 MONTHS $2,111

ILLINOIS

FRITZSCHE, HELLMUT; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7919083);* 12 MONTHS $1,971

STOPHER, PETER R; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL CONFERENCE ON COMPUTER APPLICATIONS IN CIVIL ENGINEERING; ROORKEE, INDIA; OCT 23-25, 1979 (INT-7920017);* 6 MONTHS $1,971

CHAKRABARTY, ANANDA M; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND 39TH MEETING OF ASSOCIATION OF MICROBIOLOGISTS OF INDIA; HISCAR, INDIA, NOV 1-7, 1979 (INT-7921193);* 6 MONTHS $2,099

MILLER, FLOYD G; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL PLANT ENGINEERING CONFERENCE; HYDERABAD, INDIA; OCT 24-27, 1979 (INT-7922904);* 6 MONTHS $1,370

KETTERSON, JOHN B; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL CONFERENCE ON LIQUID CRYSTALS; BANGALORE, INDIA; DEC 3-8, 1979 (INT-7914048);* 6 MONTHS $2,141

EASTON, DAVID; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE AND WORK WITH INDIAN SCIENTISTS ON THE STUDY OF POLITICAL SYSTEMS; JAIPUR, INDIA; 1/14 - 2/15/80 (INT-7924070);* 6 MONTHS $1,800

INDIANA

KASHYAP, RANGASAMI L; *UNITED STATES - INDIA EXCHANGE OF SCIENTISTS (INT-7917003);* 12 MONTHS $2,465

RAMKRISHNA, DORAISWAMI; *UNITED STATES - INDIA EXCHANGE OF SCIENTISTS (INT-7917005);* 12 MONTHS $2,374

RAVINDRAN, ARUNACHAL A; *UNITED STATES - INDIA EXCHANGE OF SCIENTISTS (INT-7917007);* 12 MONTHS $2,374

CHANG, TEH-KUANG; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND : THE INTERNATIONAL ROUND TABLE IN POLITICAL SCIENCE - CALCUTTA, INDIA - NOVEMBER 24-27, 1979 (INT-8002290);* 6 MONTHS $2,117

CROCKER, MALCOLM J; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT TO LECTURE ON ACOUSTICAL ENGINEERING IN INDIA, JULY 21-29, 1980 (INT-8014496);* 6 MONTHS $2,710

KANSAS

SHAND, NANCY; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH SCIENTISTS ON A STUDY OF NEONATES IN INDIA (INT-7900009);* 6 MONTHS $2,553

KENTUCKY

GADBOIS, JR, GEORGE H; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7918985);* 12 MONTHS $2,036

JOHNSON, DONALD W; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7918945);* 12 MONTHS $2,424

MAINE

CARR, EDWARD F; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7918952);* 12 MONTHS $2,051

MARYLAND

PATEL, DALI J; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN STUDY OF ADVANCES IN COMPUTER TECHNIQUES IN METEOROLOGY, BIO-MECH & APPLD SYS; NW DELHI, FEB 4-13, 80 (INT-8006445);* 6 MONTHS $1,977

MASSACHUSETTS

SHULDINER, PAUL W; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL CONFERENCE ON COMPUTER APPLICATIONS IN CIVIL ENGINEERING; ROORKEE, INDIA 10/23-25/79 (INT-7918167);* 6 MONTHS $2,235

WHITE, KALPANA; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE CONFERENCE ON DEVELOPMENT AND NEURORIOLOGY OF DROSOPHILA; BOMBAY, INDIA; DEC 19-22, 1979 (INT-7922910);* 6 MONTHS $1,152

JANSSON, DAVID G; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO GIVE SEMINARS ON INNOVATION PROCESS IN INDIA, MARCH 1980 (INT-8005888);* 6 MONTHS $1,970

CARMICHAEL, A D; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO GIVE SEMINARS ON INNOVATION PROCESS IN INDIA, MARCH 1980 (INT-8005888);* 6 MONTHS $2,078

MICHIGAN

NORDMAN, CHRISTER E; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE AT THE INTERNATIONAL WINTER SCHOOL ON CRYSTALLOGRAPHIC COMPUTING; BANGALORE, INDIA; JAN 4 - 14, 1980 (INT-7920132);* 6 MONTHS $2,107

TAYLOR, WILLIAM C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE AND CONFER WITH SCIENTISTS ON TRAFFIC ENGINEERING IN INDIA; SEPT 1 - DEC 15, 1980 (INT-8003384);* 6 MONTHS $2,659

MINNESOTA

SHENOI, B A; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7918933);* 12 MONTHS $2,015

MISSISSIPPI

GUPTA, VINEY K; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL SYMPOSIUM ON HYDROLOGICAL ASPECTS OF DROUGHTS; NEW DELHI, INDIA; DEC 3-7, 1979 (INT-7920130);* 6 MONTHS $2,085

SINGH, VIJAY P; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL SYMPOSIUM ON HYDROLOGICAL ASPECTS OF DROUGHTS; NEW DELHI, INDIA; DEC 3-7, 1979 (INT-7921194);* 6 MONTHS $2,087

SINGH, VIJAY P; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN INDIAN CURRENCY) FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7927012);* 6 MONTHS $2,516

MISSOURI

REMINGTON, ROBIN A; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL SPECIAL MEETING ON POLITICAL SCIENCE, CALCUTTA, INDIA; NOV 24-27, 1979 (INT-7926133);* 6 MONTHS $2,158

MORGAN, J; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN PAKISTANI CURRENCY) TO CONFER WITH SCIENTISTS IN PESHAWAR, PAKISTAN; JAN 2-12, 1980 (INT-7927272);* 6 MONTHS $2,047

DUNLAP, CHARLES E; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND : SECOND INTERNATIONAL COURSE CUM SYMPOSIUM ON BIOCONVERSION & BIOCHEMICAL ENG - NEW DELHI, INDIA 03/3-6/80 (INT-8000498);* 6 MONTHS $2,077

MONTANA

NORDTVEDT, KENNETH L; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE ON THE FIFTH INT SUMMER COLLEGE ON PHYSICS AND CONTEMPORARY NEEDS - NATHIAGAL, PAKISTAN 6/14-7/02, 1980 (INT-8016485);* 6 MONTHS $2,723

NEBRASKA

BANERJEE, MIHIR R; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND IV ALL INDIA CELL BIOLOGY CONFERENCE; CALCUTTA, INDIA, JANUARY 11 - 13, 1980 (INT-7915294);* 6 MONTHS $2,268

NEW JERSEY

STACHEL, JOHN; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; FEB 1 MARCH 31, 1980 (INT-7918931);* 12 MONTHS $1,903

BERKLEY, CARL; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7918955);* 12 MONTHS $1,903

AHAMED, SYED V; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7918959);* 12 MONTHS $1,853

MARAMOROSCH, KARL; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (INCLUDING INDIAN CURRENCY) FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7927270);* 6 MONTHS $2,024

HAMMOND, GEORGE S; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND 3RD INT'L TRADE EXPOSITION & CONGRESS FOR OIL, GAS, CHEM & CHEM ENG INDUSTRIES; BOMBAY, INDIA; 3/22-31/80 (INT-8009043);* 6 MONTHS $1,936

NEW MEXICO

LARSON, ALLEN C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE AT THE INTERNATIONAL WINTER SCHOOL ON CRYSTALLOGRAPHIC COMPUTING; BANGALORE, INDIA; JAN 4-14, 1980 (INT-7920132);* 6 MONTHS $1,646

NEW YORK

KARTHA, GOPINATH; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE AT THE INTERNATIONAL WINTER SCHOOL ON CRYSTALLOGRAPHIC COMPUTING; BANGALORE, INDIA; JAN 4-14, 1980 (INT-7918192);* 6 MONTHS $2,022

HASSNER, ALFRED; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; DEC 1979 JAN 1980 (INT-7918947);* 12 MONTHS $1,163

EDWARDS, JOHN A; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; MARCH 5-24, 1980 (INT-7918950);* 12 MONTHS $1,926

COPPENS, PHILIP; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE AT INTERNATIONAL WINTER SCHOOL OF CRYSTALLOGRAPHIC COMPUTING; BANGALORE, INDIA; JAN 4 - 14, 1980 (INT-7920134);* 6 MONTHS $2,136

SKALAK, RICHARD; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND SCHOOL ON COMPUTER TECHNIQUES IN METEOROLOGY, BIO MECHANICS & APPLD SYSTEMS; NEW DELHI, INDIA; FEB 4-13, 1980 (INT-7926504);* 6 MONTHS $1,803

SINGH, CHANCHAL; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND: INTERNATIONAL SYMPOSIUM OF DERMATOGLYPHICS PATIALA, PUNJAB, INDIA - FEB 18-23, 1980 (INT-8000951);* 6 MONTHS $1,339

TEWARSON, REGINALD P; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND: SCHOOL ON COMPUTER TECHNIQUES IN METEOROLOGY, BIO-MECH. & APPL SYSTEMS - NEW DELHI, INDIA FEB 4-13, 1980 (INT-8002203);* 6 MONTHS $1,803

PHADKE, A G; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND AND PARTICIPATE IN THE CONFERENCE ON POWER SYSTEM PROTECTION; MADRAS, INDIA; APRIL 17-20, 1980 (INT-8007163);* 6 MONTHS $1,886

EWART, DONALD N; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE CONFERENCE ON POWER SYSTEMS PROTECTION - 1980; MADRAS, INDIA; APRIL 17-20, 1980 (INT-8009645);* 6 MONTHS $2,120

BILHAM, ROGER G; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INTERNATIONAL KARAKORUM PROJECT 1980; PAKISTAN; JUNE 18, 1980 (INT-8016497);* 6 MONTHS $2,500

OHIO

MIAMI UNIVERSITY CENTRAL OFFICE

BHATTACHARJEE, J K; *SPECIAL SEMINAR (SMALL CONFERENCE) ON GENETICS AND REGULATION OF CARBOHYDRATE METABOLISM IN MICROORGANISMS; MIAMI, FLORIDA, MAY 1980 (PCM-7920497*);* 12 MONTHS $1,421

TRAVEL AWARD

RUSTAGI, JAGDISH S; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; DEC 15-31, 1979 (INT-7918934);* 12 MONTHS $1,972

JOSSEM, E L; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE ANNUAL MEETING OF THE INDIAN SCIENCE CONGRESS (PHYSICS SECTION); GAUHATI, INDIA; JAN 3-9, 1980 (INT-7926073);* 6 MONTHS $1,279

RAO, K N; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH SCIENTISTS IN INDIA; DECEMBER 1980 (INT-8000953);* 6 MONTHS $1,958

YAQUB, M; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN PAKISTANI RUPEES) TO ATTEND 5TH INTN'L SUMMER COLLEGE ON PHYSICS & CONTEMPORARY NEEDS; NATHIAGALI, PAKISTAN; 6/14 - 7/5/80 (INT-8011357);* 6 MONTHS $2,202

CHANDRASEKHAR, B S; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE ON SUPER CONDUCTIVITY; BOMBAY, INDIA; MAY 15 JULY 31, 1980 (INT-8015500);* 6 MONTHS $2,308

PENNSYLVANIA

RICHARDS, ADRIAN F; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH SCIENTISTS IN INDIA (INT-7925228);* 6 MONTHS $2,387

HERCZFELD, PETER R; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO WORK ON JOINT STUDIES IN MHD POWER GENERATION; NEW DELHI, INDIA; MAY 28 - JULY 15, 1980 (INT-8010750);* 6 MONTHS $2,408

LAHOTI, BHAGWAN D; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN A SYMPOSIUM ON EHV ENGINEERING, TESTING EQUIP. & TECHNIQUES; ROORKEE, INDIA; SEPT. 25-27, 1980 (INT-8020365);* 6 MONTHS $1,395

RHODE ISLAND

WASTI, S S; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN PAKISTAN CURRENCY) TO STUDY ENTOMOGENOUS FUNGI IN PAKISTAN; KARACHI, PAKISTAN; JULY 1-DECEMBER 31, 1980 (INT-8020294);* 6 MONTHS $2,128

SOUTH CAROLINA

ANAND, SUBHASH C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL CONFERENCE ON COMPUTER APPLICATIONS IN CIVIL ENGINEERING; ROORKEE, INDIA; 10/23-25/79 (INT-7918954);* 6 MONTHS $1,383

TENNESSEE

GOSWAMI, BHUVENESH C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7918948);* 12 MONTHS $1,965

JOHNSON, CARROLL K; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE AT THE INTERNATIONAL WINTER SCHOOL ON CRYSTALLOGRAPHIC COMPUTING; BANGALORE, INDIA; JAN 4-14, 1980 (INT-7990135);* 6 MONTHS $1,471

HOUSE, ROBERT W; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONDUCT WORKSHOPS ON SYSTEMS ENGINEERING IN INDIA; FEB 28 - MARCH 9, 1980 (INT-7926505);* 6 MONTHS $1,574

TEXAS

VENKETESWARAN, S; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7918930);* 12 MONTHS $2,065

SAUNDERS, GRADY F; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE ON THE REGULATION OF GENE EXPRESSION IN HUMAN CELLS, MADURAI, INDIA; FEB 4-12, 1980 (INT-7926503);* 6 MONTHS $2,122

COLLINS, CARL B; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO DEVELOP A JOINT RESEARCH PROJECT IN LASER SPECTROSCOPY IN INDIA (INT-7927277);* 6 MONTHS $2,198

CASSIDY, PATRICK E; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE ON POLYMER RESEARCH IN INDIA; JUNE 1-30, 1980 (INT-8011526);* 6 MONTHS $2,551

MEHTA, KISHOR C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PRESENT LECTURES ON WIND ENGINEERING AT FIVE INDIAN INSTITUTIONS; OCTOBER, 1980 (INT-8020702);* 6 MONTHS $2,538

UTAH

WOOD, STEPHEN L; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN INDIAN CURRENCY) FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-7927015);* 12 MONTHS $2,102

VIRGINIA

DICKEY, JOHN W; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH SCIENTISTS IN INDIA - FEBRUARY 1980 (INT-8000451);* 6 MONTHS $2,152

WARFIELD, JOHN N; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONDUCT WORKSHOPS ON SYSTEMS ENGINEERING IN INDIA (INT-8004563);* 6 MONTHS $1,499

TROWER, W P; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND 5TH INTERNATIONAL SUMMER COLLEGE ON PHYSICS AND CONTEMPORARY NEEDS; NATHIAGALI, PAKISTAN; JUN 14-JUL 2, 1980 (INT-8013762);* 6 MONTHS $2,712

WASHINGTON

HOU, MICHAEL C Y; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL CONFERENCE ON COMPUTER APPLICATIONS IN CIVIL ENGINEERING; NEW DELHI, INDIA ; OCTOBER 1979 (INT-7918999);* 6 MONTHS $2,123

PALKA, JOHN; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE CONFERENCE ON DEVELOPMENT AND NEUROBIOLOGY OF DROSOPHILA; BOMBAY, INDIA; DEC 19-22, 1979 (INT-7918603);* 6 MONTHS $2,267

HOOPER, PETER R; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT TO ATTEND THE SYMPOSIUM ON DECCAN VOLCANISM AND RELATED BASALT PROVINCES; KANDALO, INDIA; NOV 18-27, 1979 (INT-7922912);* 6 MONTHS $2,253

SCHULTZ, VINCENT; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE SYMPOSIUM ON MANAGEMENT OF THE ENVIRONMENT; BOMBAY, INDIA; FEB 11-15, 1980 (INT-7915783);* 6 MONTHS $2,296

SEYMOUR, ALLYN H; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND A SYMPOSIUM ON MANAGEMENT OF THE ENVIRONMENT; BOMBAY, INDIA; JANUARY 1980 (INT-7915275);* 6 MONTHS $2,068

GHOSE, SUBRATA; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL WINTER SCHOOL ON CRYSTALLOGRAPHIC COMPUTING; BANGALORE, INDIA; JAN 4-14, 1980 (INT-7926071);* 6 MONTHS $2,387

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FELLOWSHIP AND TRAINEESHIP AWARDS

GRADUATE AND MINORITY GRADUATE FELLOWSHIPS

ALABAMA

Tuskegee Institute
Name; Support Award (SPI-8019099); 48 Months $7,720
University of Alabama
Name; Support Award (SPI-8023153); 48 Months $7,720
University of Alabama in Birmingham
Name; Support Award (SPI-8019079); 60 Months $7,720

ALASKA

University of Alaska Fairbanks
Name; Support Award (SPI-8019080); 48 Months $7,720

ARIZONA

Arizona State University
Name; Support Award (SPI-8019103); 60 Months $7,720
University of Arizona
Name; Support Award (SPI-8019104); 60 Months $84,920

ARKANSAS

University of Arkansas
Name; Support Award (SPI-8019082); 36 Months $7,720

CALIFORNIA

California Institute of Technology
Name; Support Award (SPI-8019107); 60 Months $370,560
Fielding Institute
Name; Support Award (SPI-8019084); 48 Months $7,720
Rand Graduate Institute
Name; Support Award (SPI-8022788); 36 Months $7,720
Stanford University
Name; Support Award (SPI-8019177); 60 Months $1,142,560
University of California, Berkeley
Name; Support Award (SPI-8019108); 60 Months $694,800
University of California, Davis
Name; Support Award (SPI-8019109); 60 Months $108,080
University of California, Irvine
Name; Support Award (SPI-8019110); 60 Months $38,600
University of California, Los Angeles
Name; Support Award (SPI-8019111); 60 Months $115,800
University of California, San Diego
Name; Support Award (SPI-8019112); 60 Months $270,000
University of California, San Francisco
Name; Support Award (SPI-8019113); 60 Months $92,640
University of California, Santa Barbara
Name; Support Award (SPI-8019114); 60 Months $30,880
University of California, Santa Cruz
Name; Support Award (SPI-8019115); 60 Months $46,320
University of Southern California
Name; Support Award (SPI-8019092); 48 Months $15,440

COLORADO

Colorado State University
Name; Support Award (SPI-8019121); 60 Months $7,720
Name; Support Award (SPI-8022293); 60 Months $7,720
University of Colorado
Name; Support Award (SPI-8019122); 60 Months $92,640
University of Colorado Health Sciences Center
Name; Support Award (SPI-8020210); 60 Months $7,720
University of Denver
Name; Support Award (SPI-8019316); 60 Months $7,720

CONNECTICUT

University of Connecticut
Name; Support Award (SPI-8019124); 60 Months $30,880
Yale University
Name; Support Award (SPI-8019203); 60 Months $308,800

DISTRICT OF COLUMBIA

American University
Name; Support Award (SPI-8019081); 60 Months $7,720
Georgetown University
Name; Support Award (SPI-8019130); 60 Months $15,440
Howard University
Name; Support Award (SPI-8019135); 36 Months $7,720
National Academy of Sciences
Hamong; Application Evaluation Services (SPI-8022291); 12 Months $397,000
Hamong; Application Evaluation Services (SPI-8020599); 12 Months $14,000
Hamong; Application Evaluation Services (SPI-8029910); 12 Months $121,200

FLORIDA

Florida State University
Name; Support Award (SPI-8019128); 60 Months $46,320
University of Florida
Name; Support Award (SPI-8019129); 60 Months $69,480
University of Miami
Name; Support Award (SPI-8019149); 36 Months $7,720

GEORGIA

Atlanta University
Name; Support Award (SPI-8019081); 36 Months $7,720
Georgia Institute of Technology
Name; Support Award (SPI-8019131); 60 Months $30,880
Georgia State University
Name; Support Award (SPI-8019165); 60 Months $7,720
University of Georgia
Name; Support Award (SPI-8019132); 60 Months $46,430

IDAHO

Idaho State University
Name; Support Award (SPI-8019086); 36 Months $7,720
University of Idaho
Name; Support Award (SPI-8019136); 60 Months $7,720

ILLINOIS

Northwestern University
Name; Support Award (SPI-8019161); 60 Months $84,920
Southern Illinois University, Carbondale
Name; Support Award (SPI-8019170); 36 Months $7,720

University of Illinois, Chicago Circle
None: Support Award (SPI-8020570); 60 Months $7,720
University of Illinois, Urbana
None: Support Award (SPI-8019137); 60 Months $208,440
University of Chicago
None: Support Award (SPI-8019119); 60 Months $393,720

INDIANA

Indiana University—Purdue University at Indianapolis
None: Support Award (SPI-8019138); 60 Months $38,600
Purdue University
None: Support Award (SPI-8019171); 60 Months $92,640
University of Notre Dame
None: Support Award (SPI-8019091); 60 Months $7,720
None: Support Award (SPI-8023154); 60 Months $7,720

IOWA

Iowa State University
None: Support Award (SPI-8019139); 48 Months $15,440
None: Support Award (SPI-8019140); 60 Months $23,160

KANSAS

Kansas State University
None: Support Award (SPI-8019087); 48 Months $7,720
University of Kansas
None: Support Award (SPI-8019142); 60 Months $30,880

LOUISIANA

Louisiana State University Medical Center
None: Support Award (SPI-8019144); 60 Months $7,720
Louisiana State University
None: Support Award (SPI-8019143); 60 Months $7,720

MARYLAND

Johns Hopkins University
None: Support Award (SPI-8019141); 60 Months $138,960
University of Maryland
None: Support Award (SPI-8019145); 60 Months $38,600

MASSACHUSETTS

Boston University
None: Support Award (SPI-8019105); 60 Months $7,720
Harvard University
None: Support Award (SPI-8019133); 60 Months $1,026,760
Massachusetts Institute of Technology
None: Support Award (SPI-8019146); 60 Months $1,273,800
Northeastern University
None: Support Award (SPI-8019160); 48 Months $7,720
Tufts University
None: Support Award (SPI-8019189); 48 Months $7,720
University of Massachusetts
None: Support Award (SPI-8019147); 48 Months $30,880

MICHIGAN

Michigan State University
None: Support Award (SPI-8019150); 60 Months $84,920
University of Michigan
None: Support Award (SPI-8019151); 60 Months $386,000

MINNESOTA

University of Minnesota
None: Support Award (SPI-8019152); 60 Months $131,240

MISSISSIPPI

Mississippi State University
None: Support Award (SPI-8019088); 36 Months $7,720

MISSOURI

St. Louis University
None: Support Award (SPI-8019178); 36 Months $7,720
University of Missouri, Columbia
None: Support Award (SPI-8019153); 60 Months $7,720
University of Missouri, Rolla
None: Support Award (SPI-8019154); 60 Months $30,880
Washington University
None: Support Award (SPI-8019197); 60 Months $54,040

MONTANA

University of Montana
None: Support Award (SPI-8019155); 60 Months $7,720

NEW HAMPSHIRE

University of New Hampshire
None: Support Award (SPI-8019156); 36 Months $7,720

NEW JERSEY

Educational Testing Service
Glaubitz: Application Testing Services (SPI-800480); 12 Months $14,500
Princeton University
None: Support Award (SPI-8019170); 60 Months $517,240

NEW MEXICO

New Mexico State University
None: Support Award (SPI-8019157); 36 Months $7,720
University of New Mexico
None: Support Award (SPI-8019157); 36 Months $7,720

NEW YORK

City University of New York
None: Support Award (SPI-8019120); 48 Months $7,720
Columbia University
None: Support Award (SPI-8019123); 60 Months $92,640
Cornell University
None: Support Award (SPI-8019125); 60 Months $509,520
New York University
None: Support Award (SPI-8019158); 60 Months $23,160
Rockefeller University
None: Support Award (SPI-8019175); 60 Months $84,920
State University at Albany
None: Support Award (SPI-8019094); 48 Months $7,720
State University at Buffalo
None: Support Award (SPI-8019180); 60 Months $15,440
State University College of Environmental Science and Forestry
None: Support Award (SPI-8019179); 60 Months $15,440
State University at Stony Brook
None: Support Award (SPI-8019181); 48 Months $7,720
Syracuse University
None: Support Award (SPI-8019182); 60 Months $23,160
University of Rochester
None: Support Award (SPI-8019174); 60 Months $7,720
Yeshiva University
None: Support Award (SPI-8019204); 60 Months $7,720

NORTH CAROLINA

Duke University
None: Support Award (SPI-8019126); 60 Months $100,360

North Carolina State University
None; Support Award (SPI-8019090); 60 Months $23,160
University of North Carolina
None; Support Award (SPI-8019159); 60 Months $146,680
Wake Forest University
None; Support Award (SPI-8019195); 48 Months $7,720

OHIO

Case Western Reserve University
None; Support Award (SPI-8019117); 60 Months $7,720
Ohio State University
None; Support Award (SPI-8019162); 60 Months $61,760

OKLAHOMA

Oklahoma State University
None; Support Area (SPI-8019163); 60 Months $7,720
University of Oklahoma
None; Support Award (SPI-8019164); 36 Months $7,720

OREGON

Oregon State University
None; Support Award (SPI-8019165); 60 Months $30,880
University of Oregon
None; Support Award (SPI-8019166); 60 Months $23,160

PENNSYLVANIA

Carnegie Mellon University
None; Support Award (SPI-8019116); 60 Months $138,960
Pennylvania State University
None; Support Award (SPI-8019167); 60 Months $54,040
University of Pennsylvania
None; Support Award (SPI-8019168); 60 Months $131,240
Univerity of Pittsburgh
None; Support Award (SPI-8019169); 60 Months $7,720

PUERTO RICO

University of Puerto Rico Medical Sciences
None; Support Award (SPI-8019102); 60 Months $15,440
University of Puerto Rico, Rio Piedras
None; Support Award (SPI-8019101); 60 Months $15,440

RHODE ISLAND

Brown University
None; Support Award (SPI-8019106); 60 Months $54,040
University of Rhode Island
None; Support Award (SPI-8019172); 60 Months $7,720
None; Support Award (SPI-8021785); 12 Months $7,720

SOUTH CAROLINA

College of Charleston
None; Support Award (SPI-8019118); 48 Months $15,440
Medical University of South Carolina
None; Support Award (SPI-8019148); 48 Months $7,720
University of South Carolina
None; Support Award (SPI-8019093); 60 Months $7,720

TENNESSEE

University of Tennessee Center for the Health Sciences
None; Support Award (SPI-8019184); 60 Months $7,720
University of Tennessee at Knoxville
None; Support Award (SPI-8019183); 48 Months $15,440
Vanderbilt University
None; Support Award (SPI-8019192); 60 Months $23,160

TEXAS

Baylor College of Medicine
None; Support Award (SPI-8020569); 60 Months $7,720
None; Support Award (SPI-8022983); 24 Months $420
Rice University
None; Support Award (SPI-8019173); 60 Months $69,480
Texas Christian University
None; Support Award (SPI-8019096); 48 Months $7,720
Texas Southern University
None; Support Award (SPI-8019095); 36 Months $7,720
Texas Tech University
None; Support Award (SPI-8019185); 60 Months $7,720
University of Houston
None; Support Award (SPI-8019134); 60 Months $23,160
University of Texas at Arlington
None; Support Award (SPI-8019097); 60 Months $7,720
University of Texas at Austin
None; Support Award (SPI-8019186); 60 Months $69,480
University of Texas Health Science Center at Dallas
None; Support Award (SPI-8019187); 48 Months $15,540
University of Texas Health Science Center at Houston
None; Support Award (SPI-8019188); 48 Months $7,720

UTAH

Utah State University
None; Support Award (SPI-8019190); 48 Months $7,720
None; Support Award (SPI-8022655); 60 Months $7,720
University of Utah
None; Support Award (SPI-8019191); 60 Months $23,160

VIRGINIA

College of William and Mary
None; Support Award (SPI-8019201); 60 Months $7,720
Eastern Virginia Medical School
None; Support Award (SPI-8019127); 60 Months $7,720
Kappa Systems
None; Evaluation Services (SPI-8003213); 12 Months $49,022
University of Virginia
None; Support Award (SPI-8019194); 60 Months $77,200
Virginia Commonwealth University
None; Support Award (SPI-8019099); 60 Months $7,720
Virginia Polytechnic Institute
None; Suport Award (SPI-8019193); 48 Months $15,440

WASHINGTON

Washington State University
None; Support Award (SPI-8019198); 60 Months $15,440
University of Washington
None; Support Award (SPI-8019199); 60 Months $25,460

WEST VIRGINIA

West Virginia University
None; Support Award (SPI-8019200); 48 Months $7,720

WISCONSIN

University of Wisconsin-Madison
None; Support Award (SPI-8019202); 60 Months $386,000
University of Wisconsin-Milwaukee
None; Support Award (SPI-8019100); 60 Months $7,720

WYOMING

University of Wyoming
None; Support Award (SPI-8021076); 60 Months $7,720

FOREIGN

Bodansky; Individual Award (SPI-8019070); 12 Months $7,720
Childs; Individual Award (SPI-8019119); 12 Months $7,720
Deutsch; Individual Award (SPI-8019071); 12 Months $7,720
Fields; Individual Award (SPI-8019072); 12 Months $7,720
Foster; Individual Award (SPI-8018610); 12 Months $7,720
Frost; Individual Award (SPI-8026436); 60 Months $7,720
Ginsberg; Individual Award (SPI-8014904); 12 Months $360
Katz; Individual Award (SPI-8019073); 12 Months $7,720
Larson; Individual Awrd (SPI-8019074); 12 Months $7,720
Matthews; Individual Award (SPI-8019075); 12 Months $7,720
Reuter-Lorens; Individual Award (SPI-8018120); 12 Months $7,720
Voas; Individual Award (SPI-8019076); 12 Months $7,720

MINORITY INSTITUTION GRADUATE TRAINEESHIPS

ALABAMA

Alabama Agricultural and Mechanical University
Jones; Support for 3 Trainees (SPI-80-8010745); 36 Months $66,780
Tuskegee Institute
Lester; Support for 3 Trainees (SPI-8010742); 36 Months $66,780

DISTRICT OF COLUMBIA

Howard University
Goolsby; Support for 8 Trainees (SPI-8010733); 36 Months $178,080

FLORIDA

Florida Agricultural and Mechanical University
Walker; Support for 3 Trainees (SPI-8010731); 36 Months $66,780

GEORGIA

Atlanta University
Hudson; Support for 8 Trainees (SPI-8020746); 36 Months $178,080

LOUISIANA

Southern University
Christian; Support for 1 Trainee (SPI-8010740); 36 Months $22,260

NEW YORK

Long Island University
Gross; Support for 4 Trainees (SPI-8010736); 36 Months $89,040

NORTH CAROLINA

North Carolina Central University
Townes; Support for 1 Trainee (SPI-8010744); 36 Months $22,260

PUERTO RICO

Univerity of Puerto Rico, Mayaguez
Hernandez-Avila; Support for 4 Trainees (SPI-8010749); 36 Months $89,040
University of Puerto Rico, Mayaguez
Rivero; Support of 5 Trainees (SPI-8010732); 36 Months $111,300
University of Puerto Rico, Rio Piedras
Rossy; Support for 2 Trainees (SPI-8010739); 36 Months $44,520

TENNESSEE

Fisk University
Elliott; Support for 2 Trainees (SPI-8010734); 36 Months $44,520

TEXAS

Texas Southern University
Jones; Support for 3 Trainees (SPI-8010741); 36 Months $66,780

VIRGINIA

Virginia State University
Toppin; Support for 1 Trainee (SPI-8010747); 36 Months $22,260

POSTDOCTORAL FELLOWSHIPS

ALABAMA

Romine; Individual Award (SPI-8009187); 36 Months $15,462

CALIFORNIA

Baird; Individual Award (SPI-8009150); 36 Months $15,300
Bierbaum; Individual Award (SPI-8019909); 36 Months $15,605
Boyd; Individual Award (SPI-8009153); 36 Months $15,720
Davis; Individual Award (SPI-8009160); 36 Months $14,630
Jaffe; Individual Award (SPI-8009170); 36 Months $15,895
Kuwada; Individual Award (SPI-8009177); 36 Months $15,400
Miller; Individual Award (SPI-8019911); 36 Months $14,626
Pirrung; Individual Award (SPI-8018082); 36 Months $15,898
Polchinski; Individual Award (SPI-8019912); 36 Months $15,300
Sih; Individual Award (SPI-8009190); 36 Months $15,775
Stevens; Individual Award (SPI-8009191); 36 Months $15,530
Sulloway; Individual Award (SPI-8009193); 36 Months $15,928
Warren; Individual Award (SPI-8009196); 36 Months $16,240

COLORADO

Boswell; Individual Award (SPI-8009152); 36 Months $15,656

DISTRICT OF COLUMBIA

Hansing; Application Evaluation Services (SPI-8020961); 12 Months $127,200

ILLINOIS

Clemens; Individual Award (SPI-8009157); 36 Months $15,450
Rothgeb; Individual Award (SPI-8009188); 36 Months $15,300
Stratt; Individual Award (SPI-8009192); 36 Months $15,300
Walters; Individual Award (SPI-8009195); 36 Months $15,955

INDIANA

Ashby; Individual Award (SPI-8009149); 36 Months $15,528
Majeski; Individual Award (SPI-8009180); 36 Months $10,300

KANSAS

Friedrich; Individual Award (SPI-8009163); 36 Months $15,610

MARYLAND

Brown; Individual Award (SPI-8009154); 36 Months $14,100

MASSACHUSETTS

Foster; Individual Award (SPI-8019910); 36 Months $15,932
Gates; Individual Award (SPI-8018080); 36 Months $16,496
Griselman; Individual Award (SPI-8009166); 36 Months $15,008
Kerewsky-Halpern; Individual Award (SPI-8009176); 36 Months $15,300
Newman; Individual Award (SPI-8009183); 36 Months $14,700

MICHIGAN

Brown; Individual Award (SPI-8009155); 36 Months $14,252
Jonassen; Individual Award (SPI-8009174); 36 Months $15,485

MINNESOTA

Fast; Individual Award (SPI-8009162); 36 Months $15,290
Nothnagel; Individual Award (SPI-8009184); 36 Months $15,635

MISSOURI

Barteau; Individual Award (SPI-8009151); 36 Months $16,130
Howard; Individual Award (SPI-8009168); 36 Months $15,300

NEW JERSEY

DeTurck; Individual Award (SPI-8009161); 36 Months $15,300
Janetos; Individual Award (SPI-8009171); 36 Months $15,736
Johnson; Individual Award (SPI-8009172); 36 Months $15,830
Larkey; Individual Award (SPI-8009178); 36 Months $15,575

NEW YORK

Isaacson; Individual Award (SPI-8009169); 36 Months $15,300
Marcus; Individual Award (SPI-8009181); 36 Months $15,370
Zakon; Individual Award (SPI-8016447); 36 Months $15,837

NORTH CAROLINA

Burgess; Individual Award (SPI-8009156); 36 Months $15,300

PENNSYLVANIA

Geddes; Individual Award (SPI-8009163); 36 Months $16,480
Keeney; Individual Award (SPI-8009175); 36 Months $16,120

SOUTH DAKOTA

Grimm; Individual Award (SPI-8018081); 36 Months $15,685

TEXAS

Pear; Individual Award (SPI-8009185); 36 Months $15,300

UTAH

Johnston; Individual Award (SPI-8009173); 36 Months $15,535

VIRGINIA

Abramowitz; Individual Award (SPI-8009148); 36 Months $13,575

WASHINGTON

Gill; Individual Award (SPI-8009167); 36 Months $15,615
Smith; Individual Award (SPI-8019913); 36 Months $15,300

347-755 O - 81 - 16

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FELLOWSHIP AND TRAINEESHIP AWARDS

Institutions Granted Traineeships and Chosen by Fellowship Awardees, Fiscal Year 1980

United States Institutions	*Totals*	*Graduate Fellowships*	*Minority Graduate Fellowships*	*Minority Institution Graduate Traineeships*	*Postdoctoral Fellowships*
ALABAMA					
Alabama A&M Univ.	3			3	
Tuskegee Inst.	3			3	
ARIZONA					
Univ. of Arizona	3	3			
CALIFORNIA					
Calif. Inst. of Technology	10	9			1
Stanford Univ.	54	48	1		5
Univ. of Calif, Berkeley	38	30	5		3
Univ. of Calif, Davis	4	3	1		
Univ. of Calif., Irvine	1	1			
Univ. of Calif., Los Angeles	4	2	1		1
Univ. of Calif., San Diego	10	7			3
Univ. of Calif., San Francisco	3	3			
Univ. of Calif., Santa Barbara	1	1			
Univ. of Calif., Santa Cruz	1	1			
COLORADO					
Colorado St. Univ.	1	1			
Univ. of Colorado	7	4	1		2
CONNECTICUT					
Univ. of Connecticut	1	1			
Yale University	12	11	1		
DISTRICT OF COLUMBIA					
American Univ.	1		1		
Georgetown Univ.	1	1		8	
Howard Univ.	8				
FLORIDA					
Florida A&M Univ.	2			3	
Florida St. Univ.	1	1			
Univ. of Florida	3	3			
GEORGIA					
Atlanta Univ.	8			8	
Emory Univ.	1	1			
Georgia Inst. of Technology	2	2			
Georgia St. Univ.	1		1		
Univ. of Georgia	3	3			
IDAHO					
Univ. of Idaho	1	1			
ILLINOIS					
Northwestern Univ.	4	4			
Univ. of Chicago	17	15	1		1
Univ of Illinois, Urbana	13	9	1		3

FELLOWSHIP AND TRAINEESHIP AWARDS—CONTINUED

Institutions Granted Traineeships and Chosen by Fellowship Awardees, Fiscal Year 1980

United States Institutions	Totals	Graduate Fellowships	Minority Graduate Fellowships	Minority Institution Graduate Traineeships	Postdoctoral Fellowships
INDIANA					
Indiana Univ	3	2			1
Purdue Univ.	7	6	1		
IOWA					
Univ. of Iowa	1	1			
LOUISIANA					
Louisiana St. Univ.	1	1			
Louisiana St. Univ., Med. Ctr.	1	1			
Southern Univ.	1			1	
MARYLAND					
Johns Hopkins Univ.	6	6			
Nat'l Inst. of Hlth.	3				3
Univ. of Maryland	1	1			
MASSACHUSETTS					
Boston Univ.	1	1			
Brandeis Univ.	1	1			
Eye Res. Fdn.	1				1
Harvard Univ.	48	44	2		2
Mass. Inst. of Technology	70	60	8		2
Univ. of Massachusetts	1				1
MICHIGAN					
Michigan St. Univ	3	2			1
Univ. of Michigan	13	12	1		
MINNESOTA					
Univ. of Minnesota	6	6			
MISSOURI					
Univ. of Missouri, Col.	1	1			
Univ. of Missouri, Rolla	2	2			
Washington Univ.	1				1
MONTANA					
Univ. of Montana	2	1			1
NEW JERSEY					
Princeton Univ.	29	28	1		
NEW YORK					
Columbia Univ.	6	4	1		1
Cornell Univ.	20	15	5		
Long Island Univ.	4			4	
New York Univ.	3	1	1		1
Rensselaer Polytechnic Inst.	2	2			
Rockefeller Univ.	5	4			1
SUNY, Buffalo	1	1			
SUNY, Stony Brook	1	1			

FELLOWSHIP AND TRAINEESHIP AWARDS—CONTINUED

Institutions Granted Traineeships and Chosen by Fellowship Awardees, Fiscal Year 1980

United States Institutions	*Totals*	*Graduate Fellowships*	*Minority Graduate Fellowships*	*Minority Institution Graduate Traineeships*	*Postdoctoral Fellowships*
Syracuse Univ.	2	1	1		
Univ. of Rochester	1	1			
Yeshiva-Einstein Medical	1	1			
NORTH CAROLINA					
Duke Univ.	1	1			
North Carolina Central Univ.	1			1	
North Carolina St. Univ.	1		1		
Univ of North Carolina	10	6	3		1
Wake Forest Univ.	1				1
OHIO					
Case Western Reserve Univ.	1	1			
Kent State Univ.	1	1			
Medical Coll. of Ohio	1		1		
Ohio St. Univ.	1	1			
OKLAHOMA					
Oklahoma St. Univ.	1	1			
OREGON					
Oregon State U.	1	1			
Univ. of Oregon	2	1			1
PENNSYLVANIA					
Carnegie-Mellon Univ.	8	8			
Penn. St. Univ.	2	1	1		
Univ. of Penn	5	4			1
PUERTO RICO					
Univ. of Puerto Rico, Mayaguez	9			9	
Univ. of Puerto Rico, R.P.	2			2	
Univ. of Puerto Rico, School of Medicine	1			1	
RHODE ISLAND					
Brown University	4	3	1		
Univ. of Rhode Island	1	1			
SOUTH CAROLINA					
Univ. of South Carolina	1		1		
TENNESSEE					
Fisk Univ.	2			2	
Univ. of Tennessee, Hlth. Sci. Ctr.	1	1			
Vanderbilt Univ	2	2			
TEXAS					
Rice Univ.	1	1			
Texas Southern Univ.	3			3	
Texas Tech Univ.	1	1			
Univ. of Houston	4	1	2		1
Univ. of Texas, Austin	6	4	2		
Univ. of Texas, Arlington	1		1		

FELLOWSHIP AND TRAINEESHIP AWARDS—CONTINUED

Institutions Granted Traineeships and Chosen by Fellowship Awardees, Fiscal Year 1980

United States Institutions	*Totals*	*Graduate Fellowships*	*Minority Graduate Fellowships*	*Minority Institution Graduate Traineeships*	*Postdoctoral Fellowships*
UTAH					
Univ. of Utah	3	2			1
VIRGINIA					
College of William and Mary	2	1			1
Eastern Virginia Medical School	1	1			
U.S. Geological Survey	1				1
Univ. of Virginia	4	2	2		
Virginia Commonwealth University	1		1		
Virginia State Univ	1			1	
WASHINGTON					
Fred Hutchinson Cancer Research	1				1
Univ. of Washington	20	17	1		2
Wash. State Univ.	2	2			
WISCONSIN					
Univ. of Wisconsin, Madison	22	20	2		

Foreign Institutions Chosen By Fellowship Awardees, Fiscal Year 1980

Foreign Institutions	*Totals*	*Graduate Fellowships*	*Minority Graduate Fellowships*	*Minority Institution Graduate Traineeships*	*Postdoctoral Fellowships*
CANADA					
Univ. of Toronto	1	1			
FRANCE					
Ecole de Hautes Etuces en Scs.	1				1
W. GERMANY					
Munich University	1				1
SCOTLAND					
Medical Research Center	1				1
UNITED KINGDOM					
Univ. of Cambridge	2	1			1
Univ. of Oxford	1	1			
TOTAL FOREIGN	7	3	-	-	4
GRAND TOTAL	620	463	55	48	54

FELLOWSHIP AWARDS

Name and Field of Study of Individuals Offered National Science Foundation Fellowships by State of Permanent Residence, Fiscal Year 1980

ALABAMA

ROMINE, WILLIAM O. JR., Biochem

ARIZONA

CHAPPELL, THOMAS G., Chem/Orgnc
COVEY, MICHAEL C., Geology
JOHNSON, KARL P., E/Mechancl
KIRCHER, CARL C JR., Chem/Analt
NUGENT, DANIEL F., Anthrpolgy

ARKANSAS

HOLLENBECK, LAURA A., Biochem
JOHNSON, MARK G., E/Electrcl

CALIFORNIA

ANDERSON, DAVID L., Math/Apps
BAIRD, LISA M., Botany
BAND, DAVID L., Phys/Space
BARTON, STEPHEN E., Urb & Reg Pl
BELSERENE, RITA, Ecology
BERNARDO, LARRY S., Med Sci
BERNHEIM, BERT D., Economics
BOYD, ROBERT T., Ecology
BURCH, ROBERT R. Jr., Chem/Inorg
BURTIS, KENNETH C., Biochem
CRANOR, LINDA A., Sociology
DAVIS, MARK M., Molec Biol
DERIEMER, SUSAN A., Pharmacol
DOYLE, WILLIAM P. JR., Engineer
ENDEMANN, GERDA C., Nutrition
FILIPPENKO, ALEXEI, Astronomy
FINKELSTEIN, ANN, Nutrition
GERBER, ROY L., Med Sci
GREENGARD, JUDITH S., Molec Biol
HARA, STUART K., E/Chemical
HARRIS, ALEXANDER L., Chemphysel
HAUSER, MAX W., E/Electron
HOUT, ROBERT F JR., Chemistry
JAFFE, LAURINDA, A., Biology
KARELS, MICHAEL J., Molec Biol
KATZ, HOWARD E., Chem/Orgnc
KIMELMAN, DAVID, Biochem
KUWADA, JOHN Y., Biology
KYRIACOU, LEE, Economics
LANNING, KEVIN D., Psych/Pers
LARUE, LAUREN H., Zoology
LAUFER, JOHN S., Life Sci
LEFF, STUART E., Med Sci
LIEBMANN, JAMES E., Physiology
LINDSEY, JAMES D., Med Sci
LYMAN, BETSY W., Ecology
MACAULAY, MONICA A., Linguistics
MARSHALL, BRIAN D., Geochem
MARTIN, LIZBETH J., Psych/Exp
MAURO, ROBERT., Sociology
MENZEL, CHARLES R., Anthrpolgy
MORRISON, FREDERIC, Med Sci
MUMME, RONALD L., Zoology
MURPHY, KEVIN J., Economics
PADDEN, CAROL A., Linguistics
PARK, JEFFREY J., Geophysics
PEGO, ROBERT L., Math/Apps
PETERS, MARK D., Psych/Socl
PRUSINSKI, ELLEN M., E/Chemical
ROMANS, LARRY J., Theor Phys
RUBIN, JOHN M., Med Sci
SATTEN, GLEN A., Geochem
SHINKLE, JAMES R., Botany
SIH, ANDREW, Ecology
SKINNER, MARK W., Fish & Wild
SORENSEN, SORENA S., Geology
STEFANI, JOSEPH P., Geophysics
STEPHENSON, NATHAN L., Ecology
STERN, MICHAEL J., Biochem
STEVENS, AMY E., Chemphysel
STRANDBURG, KATHERINE J., Phys/State
SULLAWAY, MEGAN E., Psych/Socl
SULLOWAY, FRANK J. II, Int/H&P Sc
TAKEDA, SHARON G., Socio'ogy
THOMAS, WILLIAM R., Ecology
THORNGATE, FAYANNE E., Biochem
TOOTELL, ROGER B., Psych/Exp
TSCHANTZ, STEVEN T., Math/Logic
UNGAR, LYLE H., C/Chemical
WARREN, WARREN S., Chemphysel

COLORADO

BOSWELL, ROBERT E., Molec Biol
CHAZDON, ROBIN L., Botany
COX, DIANA L., Entomology
HANSON, ROBERT M., Chem/Orgnc
HUGHES, JOSEPH L., E/Electron
MOSHER, LEE D., Math/Topol
ROBERTS, CHRISTOPHER R., Chem/Orgnc
TAYLOR, BEVERLY J., Molec Biol.

CONNECTICUT

HENDON, JULIA A., Archeology
JONES, ALBYN C., Math/Stats
MARSHALL, MARK D., Chemphysel
PIERPONT, NINA., Ecology
SANDWEISS, DANIEL H., Archeology
STOWE, MARK K., Biology
WERNER, SARAH R., Geochem
WHARTON, ROBIN P., Molec Biol

DELAWARE

OSBORN, THOMAS C., Horticultr

DISTRICT OF COLUMBIA

BUNIN, GRETA R., Biochem
GOODMAN, JOHN J., Theor Phys
SEGALL, JEFFREY E., Biophysics

FLORIDA

ARIS, JOHN P., Molec Biol
BLEAKLEY, ALBERT M., E/Civil
EBISUZAKI, WESLEY., Meterology
FRITZ, DAVID G., Ecology
GREEN, CHARLES W., Psych/Socl
GUILD, AUDREY L., Med Sci
HUBBARD, ROBERT G., Economics
LUBAR, ANNETTE C., Math/Cmptr
NEPOMECHIE, RAFAEL., Theor Phys
NEWMAN, THOMAS H., E/Electrcl
SIEGEL, ROBERT D., Molec Biol
SILBERG, ELLEN B., Math/Stats
STOVER, EDDIE W., Agronomy
WRIGHT, JACK C., Psych/Pers
YONGUE, BRANDON G., Psych/Exp
YU, CLARE C., Theor Phys

GEORGIA

BUSS, SAMUEL R., Math/Analy
COHEN, RONALD E., Geology
GOOLSBY, WILLIAM N., E/Electron
SNIPES, GEORGE J., Molec Biol
WEIS, ROBERT S., E/Electron

HAWAII

LAU, WAYNE C., Earth Sci
WALSH, JAMES B., Genetics

IDAHO

MARGOLIS, KAREN L., Physiology

ILLINOIS

BENNER, BARBARA L., Botany
CLEMENS, JOHN M., Chemphysel
CONROW, RAYMOND E., Chem/Orgnc
CRAWFORD, ROY R., E/Mechancl
DETWEILER, MARK P., Biooceanog
DOXSEE, KENNETH M., Chem/Orgnc
FUJIMOTO, JAMES G., E/Electrcl
HAIMAN, MARK, Math/Cmptr
HALKIN, SYLVIA L., Zoology
HANNA, THOMAS E., Psych/Exp
HARM, CHARLES E., E/Electrcl
HOLLENBECK, PETER J., Genetics
KRAUSE, PHILIP R., Math/Cmptr
LI, JOACHIM J., Biochem
MATTHEWS, PAUL M., Biochem
MCGRATH, JANET W., Anthropolgy
MUDER, DOUGLAS J., Math/Algbr
NASLUND, LAUREN K., Cell Biol
OBERTO, PETE B., Sociology
ORLOFF, TOBIAS, Math/Algbr
ROTHGEB, TIMOTHY M., Biophysics
SCHNEIDER, STEPHEN E., Astronomy
SCHULT, FREDERICK R., Geophysics

SERENO, PAUL C., Paleontlgy
STRATT, RICHARD M., Chemphysl
UNNDERSTALL, JAMES R., Med Sci
WALLACE, MARK S., E/Electrcl
WALTERS, JEFFREY R., Ecology
WESCOAT, JAMES L. JR., Geog/Nphys
WHITMER, CHARLES L., Theor Phys
WOZNIAK, DANIEL B., Chemphysl

INDIANA

ASHBY, F.GREGORY., Psych/Exp
BALDWIN, JAMES D., Zoology
BEERS, TIMOTHY C., Phys/Space
COFFIN, SCOTT W., Biochem
DEBROTA, DAVID J., Biochem
HENDERSON, CLARENCE C., Intl Relat
HOOK, JULIAN L., Math/Logic
KHANNA, ROHIT, E/Chemical
MAJESKI, STEPHEN J., Political Sc
MENDENHALL, MARCUS H., Phys/Optic
RANKEN, BEVERLY, Geology
RUZIC, DAVID N., Biophysics
STEUSSY, MARTHA M., Nutrition

IOWA

BOSCH, ROBERT A., Theor Phys
CLAYTON, REBECCA A., Entomology
COLE, ERIC S., Physiology
MCCARTY, DONALD R., Agronomy
MINC, LEAH S., Archeology
POPE, GREGORY C., Economics

KANSAS

DOWNUM, CHRISTIAN E., Archeology
EDIGER, MARK D., Chemphysl
FRIEDRICH, FRANCES, Psych/Exp
HOLMER, BRUCE K., Chemistry
PEAKE, PHILIP K., Psych/Phys

KENTUCKY

GWINN, CARL R., Phys/Fluid
MIDKIFF, SCOTT F., E/Electrcl
POST, STEVEN B., Math/Analy

LOUISIANA

GARRISON, PHILLIPE., Math/Cmptr
MCKAY, NICCIE L., Economics
STRENSKI, PHILIP N., Theor Phys
VILLARRUBIA, JOHN S., Phys/State
WALLIS, KIRK D., Psych/Socl

MAINE

PROCTER, ELIZABETH A., Biology
WILDES, DOUGLAS G., Physics

MARYLAND

AGRE, PHILIPE., Math/Cmpter
BOURNE, SARAH P., Social Sci
BROWN, DALE D., Microbiol
CEBRA, JUDITH A., Biology
DEILY, MARY E., Economics
FINKELSTEIN, BEN, Phys/State
HAHN, JAMES E., Chem/Inorg
MEBANE, WALTER R., JR., Polit Sci
PERANICH, LARRY S., E/Nuclear
REMMERS, ELAINE F., Microbiol
RESCH, JAMES F., Chem/Orgnc
TAUBENBLATT, MARC A, E/Electron
THURSTON, GEORGE M., Physics

MASSACHUSETTS

BAR-YAM, JANEER, Theo Phys
BOULET, ANNE M., Biochem
CHEN, LEON L., M/Mechancl
CLARK, LORENE E., Psychology
FRIEDMAN, ROBERT, Sociology
GEISELMAN, JOY A., Ecology
IMBRIE, JOHN Z., Theor Phys
KEREWSKY-HALPERN, Int/Anthro
KRUGER, SUSAN D., Biology
LYONS, RUSSELL D., Math/Analy
MANDEL, MICHAEL J., Sociology
NEWMAN, ERIC A., Physiology
PETERS, STEPHEN C., Math/Stats
REDFIELD, CHRISTINA, Chemphysel
RIEDEL, GERARD E., Molec Biol
ROSE, LOCHLAN H., Ecology
TWICHELL, ELIZABETH, Archeology
VONBORSTEL, REID W., Med Sci
WEINER, ANDREW M., E/Electrcl
WEINRIB, ABEL, Phys/Atomic

MICHIGAN

ALBERT, DANIEL B., Bio/Env Sc
ANDERSON, OWEN C., Zoology
ANDERSON, RICHARD W., Social Sci
BEIDER, PERRY C., Engineer
BERRY, DONALD H., Chem/Inorg
BROWN, PHILIP E., Geochem
DONNER, LEO J., Meteorology
FLYNN, THOMAS J., Meterology
HAUSER, JAY, Phys/Part
HEIDEMAN, PAUL D., Ecology
JAEGER, WILLIAM M., Ecology
JONASSEN, JULIE A., Cell Biol
KRAMER, MARK A., E/Chemical
KURTZ, SARAH R., Chemphysel
ODOWD, DIANE K., Med Sci
OMALLEY, KATHLEEN A., Chem/Orgnc
PALMER, JOHN C., Psych/Exp
ROEGE, PAUL E., E/Nuclear
RUPP, RICHARD R., Matrh//Cmptr
SZPILKA, ANTHONY M., Phys/State
TRIEZENBERG, STEVEN, Molec Biol
VALLEY, JOHN W., Geochem
WARACH, STEVEN J., Psych/Exp

MINNESOTA

ADAMS, ALISON K., Psych/Dev
BERG, MARK A., Chemphysel
CLAUSON 'BARBARA L., Ecology
FAST, LOREN DE., Microbiol
HOISETH, SUSAN K., Microbiol
HOYME, KENNETH P., E/Electron
MCSWIGGEN, JAMES A., Molec Biol
MUIR, PATRICIA S., Botany
NOTHNAGEL, EUGENE, Botany
SETTER, TIMOTHY L., Agronomy
SHAPIRO, MATTHEW D., Economics
YARUSSO, DAVID J., E/Chemical

MISSOURI

BARTEAU, MARK A., E/Chemical
DILLIE, JAMES W., E/Mechancl
HOWARD, RICHARD J., Cell Biol
JACKSON, STEVE C., Math/Logic
MASCHEK, THOMAS J., E/Electrcl
MONTEVERDE, RICHARD, Economics
WATSON, ROBERT A., E/Mechancl

MONTANA

DAVIDSON, ERIC A., Botany
LUSE, DOUGLAS W., E/Electrael

NEBRASKA

DRZAIC, PAUL S., Chem/Orgnc
NICHOLS, THOMAS S., Math/Cmptr
POTEMPA, THOMAS C., Math/Apps

NEVADA

LARAMEE, JACQUELYN L., Anthrpolgy

NEW HAMPSHIRE

CHONAK, RICHARD, Math/Cmptr
HORNIG, DAVID A., Math/Cmptr
ROOS, DAVID S., Cell Biol

NEW JERSEY

BECKMAN, BRIAN C., Astronomy
CREW, GEOFFREY B., Phys/Fluid
DETURCK, DENNIS M., Math/Geom
EARL, CHRISTOPHER D., Biology
FEKETE, DONNA MARIE, Anatomy
FISHER, ALLAN L., Math/Cmptr
HERNQUIST, LARS E., Math/Apps
HOLZER, HARRY J., Economics
JANETOS, ANTHONY C., Ecology
JOHNSON, ERIC J., Psych/Dev
KANE, MARTHA L. , Geophysics
KUHN, NATHANIEL S., Math/Topol
LARKEY, LEAH S., Int/Psych
MCCARTHY, GREGORY, Phych/Exp
PENNACCHI, GEORGE G., Economics
ROSENBERG, JAMES J., E/Electron
RUSIN, DAVID J., Math/Algbra
SAMUELS, MARK E., Biochem
SCHEFFEL, DORIS J., Chem/Orgnc
STANTON, DAVID S., Ecology
STEIF, PAUL S., E/Mechancs
STERN, HOWARD S., Economics
YELLEN, GARY J., Med Sci

NEW MEXICO

BACA, ALBERT G., Chemphysel
PLUMLEE, SANDRA L., Geophysics
STEGER, TIM J., Math/Analy

NEW YORK

ADAMS, JULIAN I., Entomology
ALLEN, FRED M., Geochem
ALTABET, MARK A., Biooceanog
ATLAS, SUSAN R., Physics
BEHRENS, CARL H., Chem/Orgnc
BISSINGER, BARBARA E., Life Sci

BURSTEIN, SARA E., Cell Biol
CANAVAN, EDGAR R., E/Science
CANNARSA, MICHAEL J., Chem/Orgnc
CLARK, PETER A., E/Chemical
CONWAY, KATHRYN L., Biophysics
GORUZZI, GLORIA M., Cell Biol
DAVIS, ERNEST S., Math/Cmptr
DEVEGVAR, PAUL G., Phys/State
DOWLING, WILLIAM F., Linguistcs
FURIE, MARTHA B., Cell Biol
FRATAMICO, JOHN J., E/Electrcl
GELLER, ALFRED I., Molec Biol
GEORGI, LAURA L., Phytopath
GILBERT, DENISE M., Genetics
GREENE, JONATHAN W., E/Electron
GUGGENHEIM, SCOTT E., Anthrpolgy
GULLION, CHRISTINA M., Psychometr
HASS, KENNETH C., Phys/State
HECHT, MICHAEL H., Biochem
ISAAC, JEFFREY C., Polit Sci
ISAACSON, ELI I., Math/Apps
IZZO, RALPH, E/Mechancl
KATZ, LAWRENCE C., Med Sci
LEE, JINTAE, Hst of Sci
LEE, THOMAS D., Ecology
LIKES, RICHARD S., Theor Phys
MARCUS, PHILIP S., Phys/Fluid
MAYER, GREGORY C., Biology
MOYLAN, CHRISTOPHER R., Chemphyscl
NELSON, BERYL E., Biology
NELSON, MARGARET C., Psychology
OBRIEN, PAUL F., Economics
OKUMURA, MITCHIO, Chemphyscl
PATRIE, WILLIAM J., Biochem
PATTERSON, MARK R., Ecology
PITBLADDO, RICHARD B JR., Economics
RAYMOND, CHRIS A., Sociology
SCHEIN, BARRY J., Linguistcs
SCHEINERMAN, EDWARD M., Mathematic
SCHNEIDER, KAREN D., Psych/Dev
SEGAL, ROSALIND A., Cell Biol
SILVERBERG, ALICE, Math/Algbr
SOLOVAY, MARGIE R., Psych/Pers
STANLEY, MICHAEL E., Eng/Env Sc
TODD, G. PETER, Biochem
TUCKERMAN, DAVID B., E/Electrcl
TURNBULL, STEPHEN J., Economics
VACCARO, RICHARD J., E/Electrcl
WEINBERGER, SAMUEL A., Math/Topol

NORTH CAROLINA

BARTON, GEORGE E. JR., Math/Cmptr
BURGESS, MARY R., Cell Biol
CONKLING, MARK A., Molec Biol
DOYLE, JAMES D., Botany
EAKER, DAVID W., Chem/Orgnc
HEDRICK, ANN W., Zoology
LAWRENCE, BARBARA O., Psych/Dev
POWELL, JANET S., Psych/Dev
SCHEK, NANCY A., Microbiol
STURM, JAMES C., E/Electron
TARLETON, RICKY L., Microbiol

NORTH DAKOTA

HOGANSON, CURTIS W., Chemphyscl

OHIO

ARTHUR, ROGER D., Cell Biol
BAHNFLETH, WILLIAM, E/Mechancl
BENNETT, RICHARD M., E/Civil
BIGLER, KURT K., Psych/Exp
BONNEY, ROB, E/Science
CAHEN, HARLEY S., Bio/Env Sc
CARROLL, SEAN B., Microbiol
EASTERLY, WILLIAM R., Economcs
FALKE, JOSEPH J., Biochem
HANSEN, EDWARD C., Geochem
HUTCHESON, ANN L., Intl Relat
OLSEN, CHERIE L., Biology
RICHLEY, EDWARD A., E/Electrcl
SALINGER, MICHAEL A., Economics
SHULTZ, PETER G., Chem/Orgnc
SMOUSE, DAVID T., Biology
WALKS, JOHN P., E/Mechancl
WALLISER, THOMAS M., E/Mechancl
WEIHL, WILLIAM E., Math/Cmptr
WERTHEIM, STEVEN L., Med Sci

OKLAHOMA

CRAIG, BARBARA J., Economics
KIRK, KRIS D., Phy/Env Sc
SILBERMAN, JOEL A., E/Electron
TOYE, RICHARD G., Psych/Exp

OREGON

CLARKSON, KENNETH L., Math/Cmptr
COX, CAROLINE S., Entomology
HAMILTON, CHARLES E., Chemphyscl
SABOL, BEVERLY B., Anthrpolgy
TUBLITZ, NATHAN J., Med Sci

PENNSYLVANIA

ANDREWS, SCOTT S., Anthropolgy
ARNOLD, EDWARD V., Chem/Orgnc
BERNOFF, JOSHUA D., Math/Algbra
BLECKER, ROBERT A., Economics
CASASSA, MICHAEL P., Chemphyscl
CAVE, ROBERT J., Chemistry
DAUBERT, JESSIE A., Phytopath
DEPOLO, NICHOLAS J., Molec Biol
EPSTEIN, ROY J., Economics
FAHRBACH, SUSAN E., Psych/Exp
FETCHO, JOSEPH R., Life Sci
FREYD, JENNIFER, J., Psych/Exp
GEDDES, DAVID S., Archeology
GEYER, RUTH A., Botany
HILDEBRAND, ANN C., Genetics
HOUSMAN DAVID L., Math/Apps
KAPLAN, PAUL L. Microbiol
KEENEY, MARK E., Metallurgy
LEVIN, LORRAINE S., Linguistcs
LONG, TREVA D., E/Chemical
LOY, WALTER E., Geophysics
MCCUTCHEN, RICHARD A., Psych/Exp
MCHALE, CLAIRE A., Archeology
METZGER, JEFF R., Chem/Orgnc
MODZELEWSKI, STEPHEN W., Op R/Math
NORTON, ANDREW A., Sociology
SANDELL, JULIE H., Psych/Exp
SNYDER, ALAN J., Bio/Engr
SPRAGUE, DONALD J., Geophysics
STRONG, JOHN S., Urb & Reg Pl

PUERTO RICO

VEGA, JOSE M., Biochem

RHODE ISLAND

GOLDSTEIN, DAVID L., Physiology
SHENKER, SCOTT J., Theor Phys

SOUTH CAROLINA

ABEL, DANIEL C., Physiology
CAUGHMAN, GRETCHEN B., Microbiol
MCGLOTHLIN, NANCY H., Life Sci
PINCKNEY, THOMAS C. III, Economics

SOUTH DAKOTA

LEVI, KEITH J., Psychometr

TENNESSEE

BABIAN, FREDDIE E., E/Electrcl
DEEDS, ERIC E., Archeology
MCCORD, ELIZABETH, Chem/Orgnc
ROZZELL, JAMES D., Chem/Orgnc
SCHAUER, IRENE E., Biochem
SCHULERT, ANDREW, Math/Cmptr
STAPLETON, SARAH, Anthrolgy
VAUGHAN, MEEKS, B., E/Chemical

TEXAS

CROSS, CHARLES B., Hst of Sci
DIAZ, RICHARDO L., Math/Analy
DONOHO, DAVID L., Math/Stats
ELLIOT, ELISA L., Microbiol
JACKSON, FREDERICK, Physiology
MYERS, LEANN, Psych/Exp
PEAR, MICHAEL R., Int/Mol
PERKINS, KATHARINE, Math/Analy
PFLUGRATH, JAMES, Biochem
PRABHAKAR, ARATI, E/Electrcl
QUIST, TERRY C., Polit Sci
SQUIBB, RONALD C., Fish & Wild
THOMPSON, MICHAEL, Phys/State
WHALEN, MOLLY A., Botany

UTAH

COOK, DONALD S., E/Mechancl
HARRISON, ALAN K., Theor Phys
JOHNSTON, HENRY M., Molec Biol
NEWEY, WHITNEY K., Economics

VERMONT

POSER, WILLIAM J., Linguistcs

VIRGINIA

ABRAMOWITZ, ALAN I., Polit Sci
BLIZZARD, TIMOTHY, Chem/Orgnc
CAMP, JENA L., Anthropolgy
CLARK, LYNN G., Botany
COBB, RICHARD E., E/Mechancl
COSTANZO, MARIA C., Botany
GILBERT, GEORGE T., Math/Algbr

KISTER, MARY C., Psych/Dev
LONGBERG, NILS, Biochem
LOWE, STEPHEN A., Math/Apps
NANCE, DANA W., Math/Analy
REGES, STUART T., Math/Cmptr
SCHOCH, ROBERT T., Geology
STONE, ROBERT T., E/Electron
TUOVILA, BRUCE J., Biocontrol
WINNER, SONYA D., Polit Sci

WASHINGTON

ALEXANDER, KENNETH, Math/Stats
ANDELMAN, SANDY J., Psych/Exp
BODANSKY, DANIEL M., Hst of Sci
BOTTMAN, JEFFREY S., E/Electrcl
ERWIN, LESLIE L., E/Electrcl
GILL, RONALD E., Microbiol
GISCHER, JAY L., Math/Cmptr
HOBSON, KENNETH R., Zoology
HUNT, BRUCE J., Hst of Sci
PERARA, EVE, Med Sci
TAMADA, MICHAEL K., Economics
WILSON, KATHERINE I., Microbiol

WEST VIRGINIA

LILLY, JAMES D., E/Electrcl

WISCONSIN

ESSER, SUSAN A., Polit Sci
GILLESS, JAMES K., Forestry
HACKLEY, STEVEN A., Psychology
HELMER, BRADLEY J., Chem/Organc
JESKE, NORBERT A., Astronomy
LIGHTFOOT, EDWIN J., E/Chemical
LLOYD, ROBERT F., Phys/Atomic
NOWICKI, WILLIAM I., Math/Cmptr
PIPER, MARGARET A., Microbiol
REED, RICHARD K., Anthrpolgy
RUST, JOHN P., Economics

WYOMING

NEMETH, JOSEPH C., Theor Phys

FELLOWSHIP AWARDS

Name and Field of Study of Individuals Offered National Science Foundation Minority Graduate Fellowships, Fiscal Year 1980

ARKANSAS

LOPEZ, ROMON E., Phys/Space

CALIFORNIA

ALSTON, DENISE A., Psych/Socl
HERNANDEZ, THOMAS L., E/Mechancl
HOOK, LOUIS C., Economics
JACKSON, ANITA L., Psychol/Socl
JAMES, DONALD G., Social Sci
MARTINEZ, LEE A., Ecology
MIYASHIRO, RAND A., Anthropolgy
TAYLOR, RONALD D., Psych/Dev
VAUGHAN, ELAINE, Psych/Pers

DISTRICT OF COLUMBIA

WILKES, DONNA N., Hst of Sci

FLORIDA

SMITH, DAPHNE L., Math/Appls

GEORGIA

MCMILLIAN, BETH M., Economics

LOUISIANA

DE-AVILA-BALEJANDRO, Psych/Exp
GOUGIS REGINALD A., Psych/Exp
HOUSTON, DOMINIQUE S., Microbiol

MARYLAND

TRUITT, LEAH E., Chemphysel

MASSACHUSETTS

BATISTA, JUAN C., Economics

MICHIGAN

RIVERA, MADELINE K., Social Sci

MISSOURI

THOMAS, MARCIA N., Genetics

NEBRASKA

ENRIQUEZ, CHARLES M., Geog/NPhys

NEW JERSEY

HALL, MARCIA L., Sociology
MCLEOD, POPPY L., Psych/Socl

NEW MEXICO

DEBLASSIE, RICHARD D., Math/Analy
GONZALES, JOHN F., Urb & Reg Pl

NEW YORK

CATAQUET, HAROLD, Economics
MT-PLEASANT, JANE, Agronomy
PARKER, DEBORAH D., Psych Dev
SANTINI, CONRAD, Chem Organc

NORTH CAROLINA

DICKENS, LILLIAN E., Microbiol
HANKINS, ORLANDO E., E Nuclear
HAYES, KAREN N., Psych Dev
PEREZ-REYES, EDWARD, Pharmacol

OHIO

ANTOINE, JANICE M., E Chemical
JACKSON, LORIE D., Economics
JEFT, ORLANDO J., E Chemical
SIMMONS, DWAYNE D., Biochem

PENNSYLVANIA

FRYE, JOAN A., Chemphysel
FRYE, TOMMIE L JR, Chemphysel
PERINE, LORI A, Math Appls

PUERTO RICO

FORNES-SANTIAGO PEDRO, Sociology
HERNANDEZ-ABAD, PEDRO E., Biochem
MUNIZ QUINONES, Educ, Geog NPhys
RODRIGUEZ—MENENDEZ, C., Physiology
VEGA, RAFAEL A., Agronomy

RHODE ISLAND

ROMERO, DANIEL P., Molec Biol

SOUTH CAROLINA

THOMAS, ROSALYN V., Biology

TEXAS

BARRIENTOS, CARLOS E., Bio Engr
HOLSER, GEORGIA W., Psychology
IBARRA, JUAN A., Biology
OLIVER, PATRICE G., Biochem

VIRGINIA

CARTER, THERESA I., OPR Math
DUBOSE, LANIEL, Physiology

WASHINGTON

HARRINGTON, JAMES W. JR., Geog NPhys

WISCONSIN

JORDAN, AUDREY D., Psych Socl

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FELLOWSHIP AND TRAINEESHIP AWARDS—

Awards by Program and Field, Fiscal Year 1980

Fields	Totals	Graduate Fellowships	Minority Graduate Fellowships	Minority Institution Graduate Traineeships	Postdoctoral Fellowships
Engineering Sciences	76	66	5	4	1
Aeronautical	4	4			
Agricultural	1	1			
Bio/Engineering	4	3	1		
Chemical	20	17	2		1
Civil	2	2			
Electrical	18	16		2	
Electronics	4	4			
Engineering Mechanics	5	3		2	
Engineering Science	-				
Industrial	-				
Materials	-				
Mechanical	13	12	1		
Metallurgical	-				
Nuclear	2	1	1		
Petroleum	-				
Sanitary	-				
Engineering, Other	3	3			
Mathematical Science	59	48	4	5	2
Algebra or Number Theory	4	4	-		
Analysis	8	7	1		
Applications of Mathematics	11	3	2	5	1
Computer Science	24	24			
Geometry	3	2			1
Logic or Foundation of Mathematics	1	1			
Operations/Research	2	1	1		
Probability & Statistics	2	2			
Topology	4	4			
Mathematics, Other	-	-			
Physical Sciences	133	109	5	10	9
Astronomy	6	6			
Atmospheric Sciences	4	4			
Chemistry	60	43	4	6	7
Earth Sciences	18	18			
Metallurgy	1	-			1
Physics	44	38	1	4	1
Life and Medical Sciences	204	139	15	23	27
Agriculture	5	1	2	2	-
Biochemistry	19	15	3	-	1
Biology	58	31	3	12	12
Biophysics	6	5	-	-	1
Botany	15	12	-	-	3
Ecology	26	19	1	-	6
Genetics	8	7	1	-	-
Microbiology	16	11	2	-	3
Pathology	1	1	-	-	3
Physiology	9	6	2	-	1
Life Sciences, Other	6	1	-	5	-
Medical Sciences	21	16	1	4	-
Zoology	14	14	-	-	-

FELLOWSHIP AND TRAINEESHIP AWARDS—CONTINUED

Awards by Program and Field, Fiscal Year 1980

Fields	*Totals*	*Graduate Fellowships*	*Minority Graduate Fellowships*	*Minority Institution Graduate Traineeships*	*Postdoctoral Fellowships*
Social & Behavioral Sciences	141	98	26	6	11
Anthropology	17	15	1	-	1
Archeology	6	5		-	1
Economics	22	17	5	-	-
Geography	4	1	3	-	-
History & Philosophy of Science	9	7	1	-	1
International Relations	3	1	-	-	2
Linguistics	5	5	-	-	-
Political Science	11	9	-	1	1
Sociology	9	7	2	-	-
Urban & Regional Planning	2	-	1	1	-
Social Sciences, Other	3	1	2	-	-
Psychology	50	30	11	4	5
TOTAL USA	613	460	55	48	50
TOTAL FOREIGN	7	3	-	-	4
GRAND TOTAL	620	463	55	48	54

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